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ANNUAL REPORT

1958



Chicago Natural History Museum



GOLDEN ANNIVERSARY YEAR
OF STANLEY FIELD AS
PRESIDENT OF THE MUSEUM





STANLEY FIELD

PRESIDENT OF THE MUSEUM FOR 50 YEARS

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Report of the Director

to the

Board of Trustees

for the year 1958



CHICAGO NATURAL HISTORY MUSEUM

1959



PRINTED IN THE UNITED STATES OF AMERICA
BY CHICAGO NATURAL HISTORY MUSEUM PRESS

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GRANT PARK AND CHICAGO'S SKYLINE FROM

CHICAGO NATURAL HISTORY MUSEUM
FORMERLY FIELD MUSEUM OF NATURAL HISTORY
ROOSEVELT ROAD AND LAKE SHORE DRIVE



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ALFREDO EVANGELISTA, A.B., Thomas J. Dee Fellow, Anthropology
HOSHIE TCHEN, Ph.D., Consultant, East Asian Collection
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ALFRED LEE ROWELL, Dioramist
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WALTER C. REESE, Preparator
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ROBERT J. BRAIDWOOD, Ph.D., Research Associate, Old World Prehistory
FAY-COOPER COLE, Ph.D., Sc.D., LL.D., Research Associate, Malaysian Ethnology
A. L. KROEBER, Ph.D., Research Associate, American Archaeology
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B. E. DAHLGREN, D.M.D., Curator Emeritus
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J. FRANCIS MACBRIDE, Curator, Peruvian Botany
FRANCIS DROUET, Ph.D., Curator, Cryptogamic Herbarium*
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EMIL SELLA, Curator of Exhibits

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DAVID TECHTER, B.S., Assistant, Fossil Vertebrates
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GEORGE LANGFORD, Ph.B., Curator, Fossil Plants
ORVILLE L. GILPIN, Chief Preparator, Fossils
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ERIK N. KJELLESVIG-WAERING, B.Sc., Research Associate, Fossil Invertebrates
EVERETT C. OLSON, Ph.D., Research Associate, Fossil Vertebrates
BRYAN PATTERSON, Research Associate, Fossil Vertebrates
R. H. WHITFIELD, D.D.S., Associate, Fossil Plants
VIOLET WHITFIELD, B.A., Associate, Fossil Plants

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PEARL SONODA, Assistant, Fishes
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AUGUST ZIEMER, Assistant, Insects
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EDWARD M. NELSON, Ph.D., Associate, Fishes
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KARL PLATH, Associate, Birds
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ANDRÉ NITECKI, B.A.
BORIS IVANOV, Dipl.Law

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EUGENIA BERNOFF

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CONSTANTIN GLOBA, Dipl.Eng.

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¶ on leave

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HELEN ATKINSON MACMINN, A.M., Miscellaneous Publications

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JANE ROCKWELL, B.A., Associate*

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MARY H. RYAN, Assistant

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MARION PAHL, B.F.A., Staff Illustrator

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† deceased

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CLARENCE B. MITCHELL, B.A., Research Associate, Photography

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† deceased

ON NEXT PAGE

THE MUSEUM'S GREAT CENTRAL HALL

NAMED IN HONOR OF
STANLEY FIELD
PRESIDENT OF THE MUSEUM
SINCE 1909



Annual Report

of the Director

To the Trustees:

I have the honor to present a report of the operation of the Museum for the year ending December 31, 1958.

From many points of view, the year was one of outstanding accomplishment. The completion of remounting the *Brontosaurus* in Ernest R. Graham Hall, a specimen that had been on display, although incomplete, since the opening of this building in 1921, marked a distinct achievement (see page 64). The skeleton of this huge beast, 72 feet in length, is an imposing exhibit that dominates the hall (Hall 38).

The acquisition of the world-famous Fuller Collection of ethnological objects from the South Seas has made us second to none in collections from Polynesia as well as from Melanesia (see pages 28 and 50). The great service to science and to the Museum rendered by Captain A. W. F. Fuller of London has been recognized by the Board of Trustees in a resolution electing Captain Fuller a Patron of the Museum (see page 128). The work of Curator Roland W. Force of our own staff (see page 46) in documenting the collection and completing all arrangements for its shipment to the Museum, where it arrived in perfect condition, was noted by the Chicago Junior Association of Commerce and Industry by designating Curator Force one of the ten outstanding young men of Chicago in 1958. It is an interesting coincidence that on October 3, while

Curator Force was attending the luncheon in honor of Chicago's ten outstanding young men, he was also receiving a degree of Doctor of Philosophy *in absentia* from Stanford University.

Several important collections for the Division of Lower Invertebrates were acquired during the year. Notable among these is the Yarrington Collection presented to the Museum by the estate of the late Dr. C. W. Yarrington of Gary, Indiana (see page 73). Dr. Yarrington's interest was primarily in the beauty and variety of shells, and the special exhibit at the Museum after the receipt of this choice collection attracted wide and favorable comment.

The outstanding new field-project of the year was the Conover Peru Expedition conducted by Emmet R. Blake, Curator of Birds (see page 67) and financed by the fund established by the late Boardman Conover, a Trustee and Research Associate of the Museum. This expedition continued the type of research that had been so dear to the heart of Mr. Conover and was unusually successful in the number, variety, and rarity of the specimens that were returned to the Museum.

Financial resources of the Museum were considerably augmented through the co-operation and understanding of the Chicago Park District Commissioners, who after careful study increased the amount of funds to be made available to the museums located in the Park District. While the effect of this wise provision will not be felt until 1959, it did permit the Board of Trustees of the Museum to revise the salary schedules of the scientific staff in order to reward more adequately the services of the loyal and accomplished scientists who are responsible for the prominence of this institution in its fields of research and exhibition.

Stanley Field, President of the Museum, wrote letters during the year to the Members of the Museum informing them of its financial needs. As a result, more than \$40,000 was added to the Museum endowment through fees of Life or Associate Members, whose helpfulness and generosity are deeply appreciated.

The death of Albert W. Harris, of Chicago, on November 9 was noted with deep regret. Mr. Harris, a Benefactor of the Museum (see pages 25 and 128), had served for twenty-one years on the Board of Trustees, from which he resigned in 1941. The Department of the N. W. Harris Public School Extension of the Museum, founded by his father, benefited greatly by his gifts of more than a quarter million dollars and has grown to a position of considerable importance in the schools of Chicago (see page 24). The services of Mr. Harris were many, and they played a prominent part in the development of Chicago Natural History Museum.

TRUSTEES AND OFFICERS

At its annual meeting in January the Board of Trustees elected Stanley Field to serve as President of the Museum for his 50th consecutive year. Dedicated service in a responsible position as head of an institution for so long a time naturally attracted wide attention, and the newspapers of Chicago were generous in paying tribute to Mr. Field in their editorial comments as well as in their news columns (see page 95). On March 4, 1958, on the occasion of the celebration of the 121st anniversary of the City of Chicago, Mayor Richard J. Daley presented to Mr. Field an official "Chicago Medal of Merit" in recognition of his leadership and unselfish service in behalf of the people of the community (see below).

The Board of Trustees arranged a dinner in honor of Mr. Field, at which he was presented with an engraved plaque testifying to the action of the Board of Trustees in naming the Museum's remarkable collection of plant models "The Stanley Field Collection of Plant Models" (see page 56). The designation of this collection, which is unrivaled by any institution in the world, is particularly apt because Mr. Field himself established the plant-reproduction fund in 1916 and had carried its entire support for a number of years. The staff of the Museum presented Mr. Field with "The Man and the Museum," a volume reminiscent of the changes that have occurred at the Museum under Mr. Field's leadership.

At the annual meeting of the Board of Trustees, Vice-Presidents Hughston M. McBain, Walther Buchen, and Joseph N. Field and Treasurer Solomon A. Smith, Secretary Clifford C. Gregg, and Assistant Secretary John R. Millar were re-elected to the positions that they had previously held on the Museum's Board of Trustees.



THE N. W. HARRIS PUBLIC SCHOOL EXTENSION

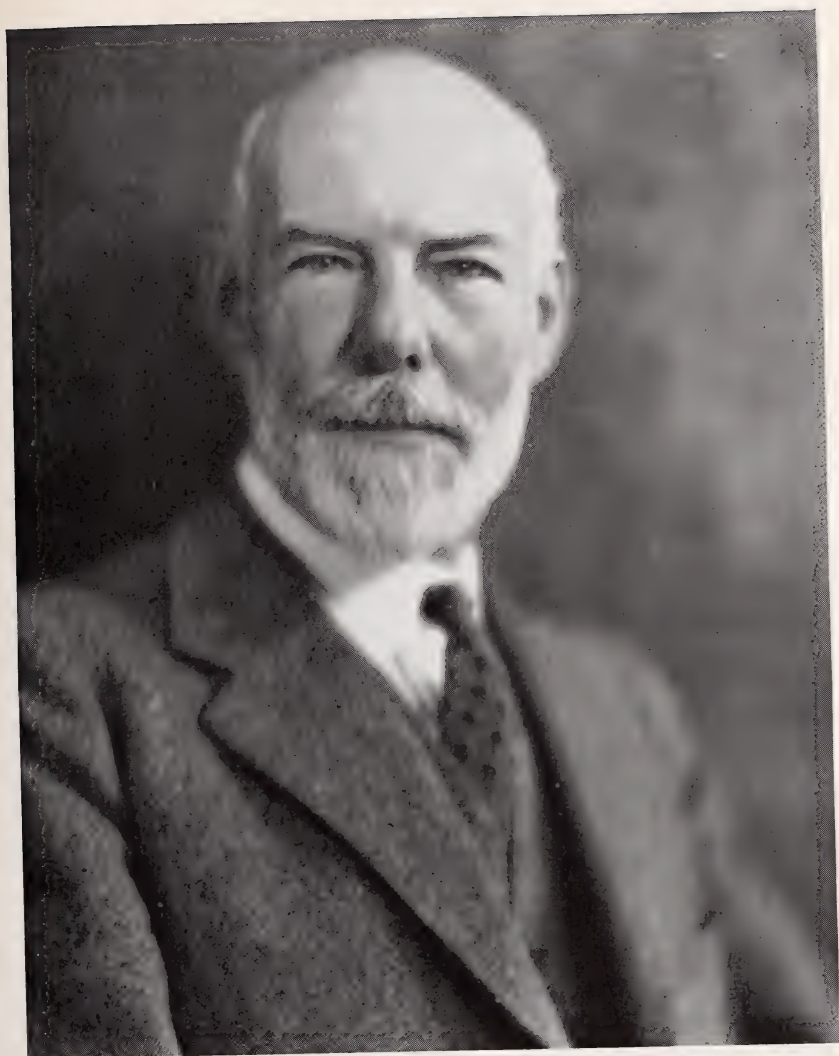
The circulation of Museum exhibits among Chicago's public schools and the many other schools and institutions in the city that have been accredited for lending service continued through the year in accordance with routine procedures. These traveling exhibits, which are installed in portable cases of standard sizes, have been especially planned and prepared over the years in the workshop of the department as supplements to the science program of the schools of Chicago.

Five hundred and seventeen schools and other institutions were being served by the department at the beginning of the year, when each held on loan two of the portable exhibits. Exchanges were made at two-week intervals during the months when school was in session so that within the year each school received 34 different exhibits. Pick-up for summer storage in the Museum began on June 5 and ended on June 20, and on September 8 deliveries were resumed for the school year. The two departmental trucks were active during 167 days and traveled 11,057 miles in delivering, exchanging, and picking up the exhibits. At the close of 1958 the circulation list numbered 516 (service to four schools had been discontinued and three schools had been added to the list).

Damage to the portable cases in circulation was light. Fifteen had to be withdrawn temporarily for repairs, but in only four was there any damage to the installation. Following the summer check-up in the Museum, maintenance repairs were made on an additional 348 of the portable cases, of which 56 required some restoration of the installed exhibit material.

The department made 35 nonroutine loans to various schools, garden clubs, and television studios and to such institutions as the American Indian Center and the Boy Scouts of America. These special loans were of individually selected materials from the department's study collections (bird and mammal skins, mounted animals, insects, shells, soil samples, rocks and fossils, and bird nests) or of specially requested exhibits available in the standard portable cases provided by the department.

There were several trips into the field to make color notes and to gather specimens essential to preparation or renovation of the exhibits worked on during the year. All were one-day excursions within the environs of Chicago. Five exhibits of the marsh marigold were prepared and installed in portable cases for circulation. Each of the new exhibits consists of a replica of the plant in natural size and enlarged models of the flower and seed capsules.



ALBERT W. HARRIS
1867-1958

TRUSTEE FROM 1920 TO 1941 AND
A VICE-PRESIDENT FROM 1933 TO 1941
BENEFACTOR OF THE MUSEUM

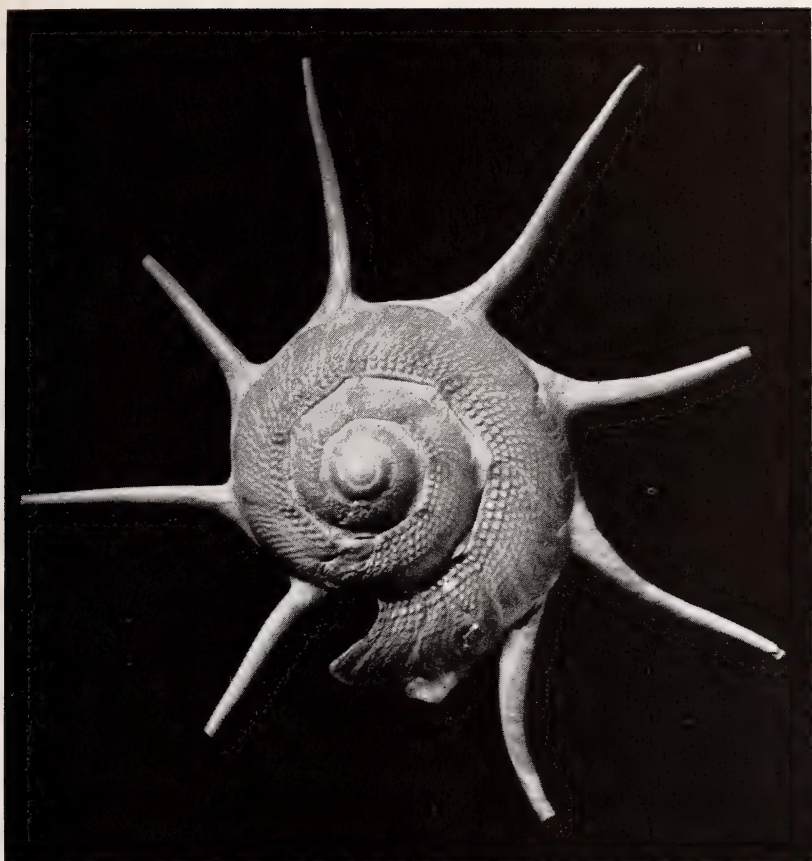
GENEROUS CONTRIBUTOR TO
THE N. W. HARRIS PUBLIC SCHOOL EXTENSION

SPECIAL EXHIBITS

In the operation of a museum, special exhibits prepared by the regular staff present a special problem. If the exhibit is to be worth while, much time must be devoted to its planning and execution. Yet a museum can afford to spend only limited amounts of staff-time and funds on exhibits that are not of lasting importance. Perhaps the finest tribute that can be given a temporary exhibit is its retention for an extended period of time. Two of the special exhibits in 1958 have this distinction. An exhibit designed to answer the question "What Is Primitive Art?" was on display in Stanley Field Hall from July through September and then was moved to a ground-floor corridor adjacent to Hall E (Africa), where it continues to give a lucid answer to all who ask the same question (see page 52). Similarly, the major part of an exhibit of shells from the collection of the late Dr. C. W. Yarrington will be placed for continuing exhibition in Hall M (Lower Invertebrates) at the conclusion of its display in Stanley Field Hall in January, 1959 (see page 76).

For the first time the Museum was host to the annual orchid show sponsored by the Illinois Orchid Society in October (page 56). For this, living orchids were displayed in an unglazed aluminum greenhouse frame lent by the manufacturer and erected in Stanley Field Hall. Corollary to the large showing of living orchids was one of specimens from the Herbarium of the Museum to illustrate historic or taxonomic aspects of the orchid family of plants, with standard reference works and richly illustrated books on the subject from the Museum's botanical library. Paintings by Caroline Van Evera of Indian types of Central and South America and market scenes were exhibited in November, and eighteen of those dealing with Guatemala Indians are now in the permanent collections of the Museum (see page 28). "Impressions of Iran," a collection of photographs of Iranian life, architecture, and landscapes, was shown during September in Hall K in relation to our Babylonian exhibits.

The Thirteenth Chicago International Exhibition of Nature Photography, co-sponsored by the Nature Camera Club of Chicago, was a major attraction in February, and the award-winning entries in the Eighth Annual Amateur Handcrafted Gem and Jewelry Competitive Exhibition sponsored by the Chicago Lapidary Club were equally attractive to visitors in June. Drawings by students of the School of the Art Institute of Chicago, whose classes meet in the Museum, were exhibited in May (see page 90). The fresh, imaginative interpretation of Museum exhibits by the younger of these students is always a joy to visitors.



JAPANESE MORNING STAR

A SHELL FROM THE
YARRINGTON COLLECTION

SPECIAL EXHIBIT
IN STANLEY FIELD HALL

GIFTS TO THE MUSEUM

The Museum received during the year generous gifts from the following donors for a number of its established Funds: Sterling Morton, \$15,000 for the Sterling Morton Endowment Fund; Miss Margaret B. Conover, \$863.75 for the Conover Game-bird Fund (established by her brother, the late Boardman Conover, Trustee and Research Associate—see page 22); C. Suydam Cutting (an Honorary Member of the Museum), \$750 for the C. Suydam Cutting Fund; Dr. Maurice L. Richardson, \$750 for the Maurice L. Richardson Paleontological Fund; Mrs. Katherine Field Rodman and T. Clifford Rodman, \$250 each for the Stanley Field Endowment Fund; Mrs. Mary Elizabeth Clyborne, \$200 for the Harry Vearn and Mary Elizabeth Clyborne Fund; and Dr. Clifford C. Gregg, \$200 for the Commander Frank V. Gregg Memorial Fund.

Additions to other Special Funds were in the following amounts: \$7,476.96 from the estate of the late Stewart J. Walpole for the Stewart J. Walpole Endowment Fund; \$12,690 from the estate of the late Miss Shirley Farr for the Shirley Farr Bequest Fund; and \$707.02 from the estate of the late Mrs. Abby K. Babcock for the Frederick Reynolds and Abby Kettelle Babcock Fund (for use of Special Funds in 1958 see page 116).

Stanley Field, President of the Museum, gave an additional \$43,600 for endowment. During the year an additional \$3,304.58 was received from Lester Armour, Joseph N. Field, William H. Mitchell, John T. Pirie, Jr., and Robert Trier for the Fuller Collection Purchase Fund (see page 21), which was established in 1957 (see Annual Report 1957, page 29). Previous donors to the Fuller Collection Purchase Fund included George A. Bates, Wm. McCormick Blair, Walther Buchen, Walter J. Cummings, Joseph N. Field, Marshall Field, Jr., Henry P. Isham, Hughston M. McBain, William H. Mitchell, Sterling Morton, Clarence B. Randall, John G. Searle, Solomon A. Smith, Louis Ware, and John P. Wilson (see illustration on facing page).

DeWitt Van Evera gave \$5,600 for the purchase of paintings of Guatemala Indians, Sidney D. Gamble gave stock valued at \$2,548.26 to assist in the publication of *A Bibliography of Birds* (by Reuben Myron Strong), Winston Elting and James R. Getz each contributed \$300 for an anthropological field trip to the coastal region of Lake Superior, the Oriental Institute of the University of Chicago gave \$250 toward the publication of *Prehistoric Men* (by Robert J. Braidwood), and Samuel Insull, Jr., gave \$100 in memory of the late Norman Field. Other gifts came from George A.



PRESIDENT STANLEY FIELD (AT RIGHT)
AND DIRECTOR CLIFFORD C. GREGG
LOOK OVER THE FULLER COLLECTION

Bates, Peder A. Christensen, Mr. and Mrs. Gaylord Donnelley, Harry Hoogstraal, L. F. Hawley, Hubert and Wilma Silberman Charitable Foundation, John Plain Foundation, Donald R. McLennan, Jr., Mrs. Langdon Pearce, Jacob C. Pratt, Jr., Elmer H. Schultz, Mr. and Mrs. Reuben M. Schutz, South Suburban Friends Meeting, Shell Development Company, and Mrs. Richard Zickman.

Contributors elected by the Board of Trustees are: Lester Armour, Dr. Jeanne S. Schwengel, Donald R. Thurow, DeWitt Van Evera, and (posthumously) Dr. C. W. Yarrington (for roster of Contributors see page 129). Gifts of materials received during the year are listed at the end of this Report (see page 118) and under the heading "Accessions" in the reports of the scientific departments (see pages 50, 58, 63, and 71).

Friends of the late Karl P. Schmidt, Curator Emeritus of Zoology, established a Fund in his name, the income from which is to be used in assisting scholars to study at the Museum (see March and July issues, 1958, of Chicago Natural History Museum *Bulletin*). Awards will be made by the Trustees of the Fund, who have turned over to the Museum for investment purposes the sum of \$6,125 (see also Annual Report 1957, pages 30 and 33).

LECTURE PROGRAMS FOR ADULTS

The 109th and 110th illustrated lecture series in the Museum program were presented during the year in James Simpson Theatre of the Museum. These series drew a total attendance of 17,042 persons, slightly more than the attendance of the previous year. As usual, many letters of thanks for these lectures, which are presented free of charge through the provision of the Edward E. Ayer Lecture Foundation, were received. So also were many letters of comment and commendation. A typical letter states, in part: "For ten years I have been attending the Saturday afternoon lecture series and have been delighted with the top-caliber speakers. I can appreciate how much effort goes into setting up a well-balanced and visually effective program. I think the enthusiasm and loyalty of the audience reflect the success of these programs and that you can be well satisfied that all the time and effort and planning that go into the series are worthwhile." The Museum will continue in its efforts to secure the best speakers available and to present to its audiences subject-matter of unusual interest. These popular series of free lecture-programs are held on Saturday afternoons in March and April and in October and November.

JAMES NELSON AND ANNA LOUISE RAYMOND
FOUNDATION FOR PUBLIC SCHOOL AND
CHILDREN'S LECTURES

The Raymond Foundation continued to develop its pattern of programs for (1) organized groups of children and students and for (2) individual children and adults as worked out in past years. Particularly have we stressed programs that would help as many groups and individuals as possible with our limited staff of seven.

Work with organized groups continued to be the larger part of the program, although Raymond Foundation could not possibly take care of all organized groups that came to the Museum. For instance, 4,940 groups with 209,883 children and students registered in the Museum in 1958. Not all of these needed help from Raymond Foundation, but many did. Raymond Foundation helped 2,464 groups with 97,822 children and 59 groups with 1,737 adult students, making a total of 2,523 organized groups with 99,559 children and students of all ages. A waiting list of 297 groups of about 9,715 children and students was established in case of cancellations in programs and tours.

The peak load for organized groups of school children was reached in the spring months of April and May and the fall months of October and November. However, other months began to have larger attendance; in fact, Raymond Foundation broke all previous records for work with children in February, March, April, May, June, and October. By thus spreading the programs for groups into more months, Raymond Foundation was able to take care of about 22,500 more children in the Museum this year than in 1957 without lowering the standards of work and programs.

The need has grown for programs for a persistent but small number of people (both adults and children) who are sincerely interested in seeing the Museum individually or with small family groups. For these individuals we offered (1) the daily public tours (except Sundays)—282 tours with 4,232 persons, (2) miscellaneous tours for adults—24 tours with 551 persons, and (3) motion-picture programs for children—32 programs with 22,242 children. We also offered the Museum film "Through These Doors" (39 showings, attendance 4,407) and the Museum Journey series for children (4 different Journeys in a year, 1,238 completed in 1958). This made a total of 9,424 adults in 351 programs and 33,480 children in 361 programs, or a total of 32,904 individuals in 387 programs. (The lecture series for adults given on Saturday afternoons in spring and fall are not a function of Raymond Foundation—see page 30.)

Figures in the summary of Raymond Foundation activities for 1958 (see page 35) show an overall increase of more than 10,000 above the 1957 figures. It should be noted that all of this work took place in the Museum. Extension services, which accounted for more than 12,000 students in 1957, were discontinued because of the increased demand for staff services within the Museum.

In January an unusual request came from the Glencoe (Illinois) Park District for a series of Saturday programs that would give their group a background of information on the out-of-doors in preparation for field trips scheduled for spring. Five programs were given, with an attendance of about 240 for the sessions (most of the students attended all of the programs). For other organized groups the Museum offered, in July and August, a film program "Trailside Adventures," in which 13 groups with 555 children participated.

The motion-picture programs for children continued on Saturday mornings in March and April (8 programs with 8,312 present), on Thursday mornings in July and August (12 programs with 10,401 present), and on Saturday mornings in October and November (9 programs with 3,529 present). At the spring and fall programs our series of Museum Stories (see page 102) were distributed to the children: "Bible Animals" (8 stories by Maryl Andre) and "Plants the American Indians Used" (9 stories by Marie Svoboda).

In connection with the spring series of motion pictures the Museum inaugurated "Honor Days" for recognition of different organizations of young people. On each Honor Day an appropriate program was planned, following which the boys and girls were directed to Museum exhibits related to the subject. For example, on Cub Scout Day (March 8), when the subject was "Exploring Alaska," approximately 900 Cub Scouts, along with 300 other boys and girls, saw the movie and then explored our exhibits on Alaska.

On Girl Scout Day (March 15, with approximately 1,100 Girl Scouts present), a special skit was staged by Girl Scout Troop No. 38 of Chicago. Brownie Scout Day (April 26) proved the need for programs for these young Girl Scouts—the puppet show was given three times to accommodate 3,200, and the Museum was a sea of little Brownies who had come from as far as a hundred miles to see our program (sometimes a program succeeds so well that it presents difficulties: it did that day—there was not enough room for the children in the lunchrooms or in the Theatre). On Camp Fire Girl Day (March 22) approximately 430 Camp Fire Girls attended. Other Honor Days were: Chicago Boys' Clubs Day (March 29), with approximately 300 boys from the Chicago Boys' Clubs along with more than 400 other boys and girls; Boy Scout Day (April 12),



ON CUB SCOUT DAY AT THE MUSEUM
THE MOVIE WAS ABOUT ALASKA

with about 100 Boy Scouts and about 220 other boys and girls; and YMCA Day (April 19), with approximately 480 YMCA fathers and sons along with 200 other children.

Thirty-two Girl Scout Museum Aides were trained to help with both Girl Scout Day and Brownie Scout Day. These girls did a remarkable service in taking the visiting girls on tours of the Museum (97 tours with 2,200 persons). Sixteen Camp Fire Girl Aides were trained to help with their girls on Camp Fire Girl Day. They directed their girls to the Museum exhibits that correlated with their theme for 1958. We are grateful to the Aides for their help.

More and more frequently requests are made for programs for leaders—these are often for teachers-in-training in universities and colleges or for teachers' meetings in school. Teachers and leaders who are better trained in use of museums and community resources are worth all the time and effort we put into such assistance. An unusual program for leaders was our workshop for Cub Scout Mothers called "The Birds' Christmas Tree," which showed how to use the family Christmas tree as a feeding station for winter birds.

Museum Journeys were continued for children to take by themselves or with their families at the time during Museum hours most convenient for them. In January 155 children completed the 1957-58 Winter Journey (no. 12), "Animals in Winter." The Spring Journey (no. 13), "Animals of the Bible," totaled 530 completed; the Summer Journey (no. 14), "Nature Around Us," totaled 217 completed; the Fall Journey (no. 15), "Plants the Indians Used," totaled 283 completed; and the Winter Journey (no. 16), "Chicago—Winter Resort for Birds" (which carried over into 1959) totaled 53 completed in 1958.

Awards were presented in the spring and fall to those boys and girls who had successfully completed Museum Journeys as follows: 38 completed their first four Journeys and became Museum Travelers; 13 completed a second group of four Journeys and became Museum Adventurers; and 13 completed a third group of four Journeys and became Museum Explorers. Beginning with the Summer Journey, each Journey was made available for three months and thus, with four Journeys presented a year, there is always a Journey scheduled—1,238 Journeys were completed this year.

For the first time Raymond Foundation had the help of an Antioch College student (see page 90), Miss Marcia Dunwell, who gave able assistance in April, May, and June with the programs in the Museum for students. Her duties ranged from checking coats and lunches and directing the students to their regions of study in the Museum halls to helping with the actual programs.

RAYMOND FOUNDATION ATTENDANCE FOR 1958

1. WORK WITH CHILDREN IN THE MUSEUM

| A. <i>With school groups</i> | Groups | Individuals | Groups | Individuals |
|--|--------|-------------|--------|-------------|
| Chicago public..... | 799 | 33,474 | | |
| Chicago parochial..... | 58 | 2,167 | | |
| Chicago private..... | 44 | 1,239 | | |
| Suburban public..... | 1,159 | 41,826 | | |
| Suburban parochial..... | 26 | 991 | | |
| Suburban private..... | 16 | 467 | | |
| Out-of-state..... | 171 | 7,363 | | |
| Total for school programs..... | 2,273 | 87,527 | | |
| | | | | |
| B. <i>With other children's groups</i> | | | | |
| Tours only..... | 157 | 7,442 | | |
| Special programs..... | 34 | 2,853 | | |
| Journeys..... | | 1,238 | | |
| Children's movies..... | 32 | 22,242 | | |
| Total for other children's programs | 223 | 33,775 | | |
| TOTAL WORK WITH CHILDREN..... | | | 2,496 | 121,302 |

2. WORK WITH ADULTS

| | | | | |
|-----------------------------|-----|-------|-----|--------|
| A. <i>Tours only</i> | | | | |
| Colleges..... | 40 | 1,135 | | |
| Public tours..... | 282 | 4,232 | | |
| Miscellaneous..... | 24 | 551 | | |
| Total tours..... | 346 | 5,918 | | |
| | | | | |
| B. <i>Special programs</i> | | | | |
| Colleges..... | 19 | 602 | | |
| Miscellaneous..... | 45 | 4,641 | | |
| Total special programs..... | 64 | 5,243 | | |
| TOTAL WORK WITH ADULTS..... | | | 410 | 11,161 |

GRAND TOTAL FOR RAYMOND FOUNDATION WORK..... 2,906 132,463

MEMBERS' NIGHT

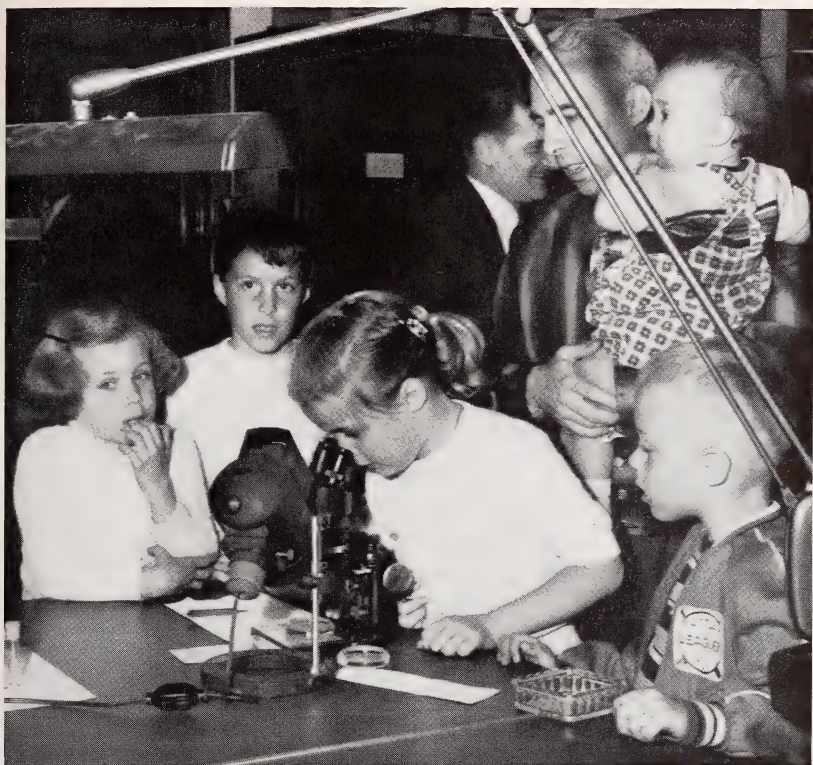
Scheduling Members' Night in the spring rather than in the fall was well received by the Museum's Members and guests. Almost 1,300 were present on April 18 to view the material on exhibition and to visit the workrooms and laboratories where members of the staff welcomed them. Specially featured were the reinstalled mineralogical exhibits, the completed fossil skeleton of *Brontosaurus*, a zoological exhibit showing the beauty of birds rather than their taxonomic classification or ecology, and the series of synoptic exhibits giving a comprehensive view of the animal kingdom. Refreshments were served in Stanley Field Hall during the evening.

MEMBERSHIP

Membership in Chicago Natural History Museum is a splendid opportunity to contribute to the advancement of scientific discovery and education. Membership dues and contributions to the Museum assist greatly in financing our research and educational efforts, and I wish to express the thanks of the Museum to those Members and donors whose loyal support and encouragement have furthered our achievements. Our membership rolls at the end of 1958 carried 5,722 names, an increase of more than 200 during the year. The increase of 88 Life Members and 186 Associate Members surpasses gains in those categories for many years (see page 22). The names of all Members of the Museum during 1958 are listed at the end of this Report (see also page 30 for names of Contributors).

ATTENDANCE

Attendance at the Museum declined somewhat during the year, especially in the first six months. The trend was reversed in July, and more than half of the loss was restored. Total attendance was 1,049,401 (see page 113). By contrast, the paid attendance of 161,593 exceeded that of the previous year by 21,759, being 15.4 per cent of our visitors compared with 12.7 per cent of our visitors in the previous year. This change was brought about by increased attendance during the week and declining attendance on Saturday and Sunday when no admission is charged. The figures add further emphasis to the transportation problem of the Museum on Sundays, when the people of Chicago find it difficult and tedious to reach the Museum by bus.



THE CHILDREN ENJOYED IT TOO

MEMBERS' NIGHT
AT THE MUSEUM

STAFF OF THE MUSEUM

Three Research Associates were elected during the year by the Board of Trustees: Harry Hoogstraal (formerly Field Associate in the Department of Zoology), Research Associate in the Division of Insects; Dr. Rogers McVaugh, Research Associate in the Division of Vascular Plants; and Erik N. Kjellesvig-Waering, Research Associate in the Division of Fossil Invertebrates. Two Associates were appointed: Harry G. Nelson, Associate in the Division of Insects, and D. S. Rabor (formerly Field Associate in the Department of Zoology), Associate in the Division of Birds. Other staff appointments during the year were: Mrs. Dorothy Gibson, Secretary, Department of Botany; Miss Marion A. Kratky, Secretary, Book Shop; Miss Patricia McAfee, Assistant, Public Relations; André Nitecki, Cataloguer in the Library; Mrs. Gloria Pagano (in charge) and Mrs. Mary H. Ryan, Assistant, Division of Memberships; and Bertram G. Woodland, Associate Curator, Division of Petrology.

Allen S. Liss, Assistant in the Department of Anthropology, was advanced to Custodian of Collections, and Alfredo Evangelista was awarded a Thomas J. Dee Fellowship in Anthropology following the resignation of Evett D. Hester (Annual Report 1954, page 28). Other staff resignations during the year were: Dr. Francis Drouet, Curator, Cryptogamic Herbarium; Miss Mary Felsenheld, Assistant, Division of Memberships; Mrs. Marjorie Furr, Artist, Department of Botany; Miss Marguerite Grauel, Cashier, Division of Accounting; Miss Marilyn Jaskiewicz, Secretary, Department of Botany; Miss Louise Jones, Secretary, Book Shop; Miss Jane Rockwell, Associate, Public Relations; Dr. Julian A. Steyermark, Curator, Phanerogamic Herbarium; and Miss Marjorie A. West, Library. Frank C. Jensik became Captain of the Guard following the death on July 9 of Captain Matthew S. Moroney.

The death on December 13 of William J. Gerhard, Curator Emeritus of the Division of Insects, brought an end to a long career of devoted service at the Museum. Mr. Gerhard assumed charge of the Division of Entomology in 1901 and remained continuously in charge until January 1, 1951, when at his own request he was made Curator Emeritus "in order that one of those fine young men may become Curator." Mr. Gerhard was the only member of the Museum staff whose service to the Museum predated that of President Stanley Field.

I also record with deep regret the death on February 20 of Miss Pearle Bilinske, head of the Division of Memberships, who faithfully served the Museum for thirty-five years; the death on April 9 of

Julius Friesser, pensioner, staff taxidermist for forty-four years; the death on October 31 of Martin Marx, a guard; the death on December 19 of Edward McCue, a guard; the death on October 5 of Timothy Reidy, pensioner, former Sergeant of the Guard; and the death on October 18 of Adelbert L. Stebbins, pensioner, former Auditor in the Division of Accounting.

The Museum thanks its volunteer workers for help during the year. Some of them, designated as Research Associates and Associates, are included in the List of Staff at the beginning of this Report. Other volunteers are: Howard Anderson, James Bacon, Miss Lynn Beach, Walther H. Buchen, David Collier, Stephen Collings, Teddy Czyzewicz, Miss Margot Donald, Michael Duever, Mrs. Patricia R. Falkenburg, John Gedgaudas, Mrs. Dorothy Gould, William Herbert, Charles Knowles, Mrs. Judith Lownes, Mrs. Glen Nellis, Stirling Nellis, Thomas Olechowski, Philip Porzel, Miss Grace Ramke, Richard Saunders, Wayne Serven, Miss Mimi Simons, and Mrs. Adele Woods.

The University of Cincinnati at its annual commencement held on June 6 conferred the honorary degree of Doctor of Laws on Clifford C. Gregg, Director of the Museum. Dr. Gregg received the degree of Bachelor of Science from that university in 1917.

THE BOOK SHOP

This has been the best year for the Museum's Book Shop since its beginning in 1938. It was possible, because of enlarged and remodeled quarters, to offer more efficient service as well as a wider selection of books and other merchandise. Sales were \$196,890.10, a marked increase over sales of \$141,109.36 in 1957, which was a record year. The highest sales for a single day and for a single week were also achieved in 1958, when sales of \$2,024.44 on Saturday, May 3, brought total sales for the week to \$6,307.27. It is to be noted that much of the success of the Book Shop is the result of unusual items that often are available through the creativeness of the Museum staff. At the end of the year eight more of the popular Museum Storybooks (see page 102), written for children by members of Raymond Foundation staff, were on sale. The Museum is happy to express its appreciation to the William Wrigley Company for continued co-operation through its program of educational advertising of books and other natural-history material that are for sale in the Book Shop. This year "Bird Fun Mobile" was advertised, resulting in sales of more than 30,000 units.

EXPEDITIONS AND FIELD TRIPS IN 1958

The Museum conducted ten expeditions and field trips in 1958. Their work is described in this Report under the headings of the scientific departments (see page references below):

DEPARTMENT OF ANTHROPOLOGY—*Great Lakes Area Archaeological Field Trips* (George I. Quimby, Curator of North American Archaeology and Ethnology, see page 46); *Southwest Archaeological Expedition* (Dr. Paul S. Martin, Chief Curator of Anthropology, see page 43).

DEPARTMENT OF BOTANY—*Northern Great Plains Botanical Field Trip* (Dr. John W. Thieret, Curator of Economic Botany, see page 54).

DEPARTMENT OF GEOLOGY—*Indiana Paleontological Field Trips* (Dr. Rainer Zangerl, Curator of Fossil Reptiles, and Dr. Eugene S. Richardson, Jr., Curator of Fossil Invertebrates, see page 59); *Wyoming Paleontological Expedition* (William D. Turnbull, Assistant Curator of Fossil Mammals, see page 60).

DEPARTMENT OF ZOOLOGY—*Colombia Zoological Expedition* (Kjell von Sneider, see page 67); *Conover Peru Expedition* (Emmet R. Blake, Curator of Birds, see page 67); *Co-operative Field Work with United States Fish and Wildlife Service in the Equatorial Atlantic* (Loren P. Woods, Curator of Fishes, see page 67); *Malaya Field Trip* (D. Dwight Davis, Curator of Vertebrate Anatomy, see page 68); *Southern Illinois Field Trip* (Henry S. Dybas, Associate Curator of Insects, see page 67). See illustrations on pages 45 and 69.



Clay dog

Colima
Mexico

Hall 8

DEPARTMENT OF ANTHROPOLOGY

DEPARTMENT OF BOTANY

DEPARTMENT OF GEOLOGY

DEPARTMENT OF ZOOLOGY

Department of Anthropology

Research and Expeditions

Under the leadership of Dr. Paul S. Martin, Chief Curator of Anthropology, the Southwest Archaeological Expedition (see page 40) spent four months digging a large ruin in Arizona. Dr. Martin was assisted by Dr. John B. Rinaldo, Assistant Curator of Archaeology, by Howard Anderson, who had charge of classifying pottery, and by Michael Cornog, Emerson Mulford, Roland Strassburger, and Mark Winter. Purposes of archaeological research in the area are numerous, but the major one is an attempt to determine whether the modern Hopi or Zuni Indians are the heirs to the Mogollon culture that has been under study for more than fifteen years.

The large site that was excavated is located one mile east of St. Johns, Arizona, on a hill overlooking the east bank of the Little Colorado River. The ruin is owned by Mark Davis of St. Johns, who graciously gave the Museum permission to excavate the site and to bring to Chicago for study and exhibition all materials recovered by the expedition.

Excavation demonstrated that the pueblo was fairly large, consisting of fifty rooms, the floors of which rested on bedrock (no earlier structures were found). Most of the rooms were shallow with walls yet standing that varied in height from ten inches to about six feet. Although most of the pueblo had been only one story high (with ceilings perhaps six feet high), some sections of the pueblo had been two stories high.

There were no outside doorways, but access to each room was by a hatchway in the roof. The hatch, which in some instances consisted of a stone jamb (that is, a single large slab of stone pierced by an oval or rectangular hole some 18 inches across and wide enough to permit a person to pass through), was covered by a neatly cut thin stone slab or by planks. Roofs, which were at least eight inches thick, were constructed of several large beams, poles, branches, and clay, and in the center of each roof was the hatch. Smoke from the firepit escaped by this route and fresh-air intake in some rooms was provided by ingenious ventilator shafts. It seems probable that the builders of the pueblo on the Davis ranch had a "blueprint" in mind because the rooms appear to have been built to a pattern. One row of rooms is in line, the rooms are all about the same size, and all the firepits are in line. Two ceremonial rooms (kivas) were found. One had a flagstone floor into which loom holes had been drilled.

Corn (charred cobs found) and probably beans and squashes were planted in the floodplain of the Little Colorado just below the village, an excellent site for agriculture. Certainly the river water was used for domestic purposes and may have been used for sheet irrigation, although there is no evidence.

Some 25,600 potsherds were recovered from stratified rubbish and from the fill and floor of rooms and kivas. These sherds have been placed in twenty-five types of painted wares and about twelve utility types. In all, forty-nine whole or restorable vessels were recovered. Early pottery types occurred throughout the debris, but if any earlier rooms existed they had been completely razed. A technological study of all of these sherds is in progress. One technique (that of refiring sherds at constant temperature) is used to determine similarities or dissimilarities of clays and thus to determine which are imported or locally made pots. Howard Anderson is making the analyses.

Tentative conclusions based on refiring and microscopic and chemical analyses indicate that the painted decorated pottery—Salado polychromes, Hopi yellow, and Zuni glazes—was obtained by trade from areas to the southwest, northwest, and northeast and at distances varying from 70 miles to 200 miles. The remainder—that is, the bulk of the pottery consisting of about 20,000 sherds of utility wares (unpainted types)—was probably made locally and is Mogollon in character. We wonder if the inhabitants of the site at the Davis ranch made any painted pottery. We do not know at present. It is conceivable that the “foreign” (traded) types were all made at the Davis ranch site by artisans and craftsmen who brought clay, paints, temper, and the ideas for the traditionally correct designs from the various areas mentioned. We do not know what the Indians at the Davis ranch site used for barter.

More than 850 stone, bone, shell, and textile artifacts were recovered from the pueblo. These comprise the tools and other accessories of a technology with a continuity that had lasted some 2,000 years but had at the same time included the industrial arts of a well-developed Stone Age culture. Many of the chipped-stone tools have their counterparts in the earlier areas of the culture, and the majority of the milling tools were shaped by the most primitive methods of pecking and grinding. On the other hand, many new tools and tool types had come to be used, such as grooved axes, arrow-shaft tools, saws, and sledge hammers. Some of these were polished. Meanwhile, certain types of axes, mauls, hoes, and arrow-shaft tools impart a Western Pueblo character to the whole and indicate that the culture was Mogollon in derivation.



PANORAMA SHOWING REMAINS OF
MOGOLLON INDIAN VILLAGE (ABOUT A.D. 1400)
ON LOW HILL NEAR ST. JOHNS, ARIZONA

EXCAVATED IN 1958 BY
SOUTHWEST ARCHAEOLOGICAL EXPEDITION

Thus the pueblo at the Davis ranch, tentatively dated at about A.D. 1350–1425, appears to be Mogollon in character intermixed with sizable portions of Hopi, Salado, and Zuni traits. It would appear that the pueblo was the end product of a long cultural growth and not a Zuni “suburb.” There is a close tie-up with Foote Canyon pueblo dug in 1955 in New Mexico and the pueblo excavated here.

George I. Quimby, Curator of North American Archaeology and Ethnology, continued his research on problems of archaeology and environment in the Upper Great Lakes region. He made study trips to museums and universities in Wisconsin and Michigan and conducted field research in northeastern Wisconsin, the Upper Peninsula of Michigan, and the north shore of Lake Superior (see page 40). Field researches included an archaeological survey of Washington Island in northern Lake Michigan and a reconnaissance of the Point Beach State Forest area in northeastern Wisconsin. A study of site loci and fossil beaches in this area showed that a complex of stone and copper tools and weapons and polished stone ceremonial objects were later than the Algoma Beach stage in the Lake Michigan basin and belonged to the late Archaic period (about 900 B.C. to 400 B.C.) of the Upper Great Lakes region. Curator Quimby was assisted by Winston Elting and James R. Getz in an archaeological survey of the coastal region of Lake Superior—the vicinity of Huron Mountain in northern Michigan, the Grand Portage area of northern Minnesota, and parts of Ontario as far east as the Pic River. Important collections were obtained in the vicinity of Pass Lake, Ontario, and the mouth of the Pic River. The earliest recovered specimens date from about 7000 B.C. and the latest at about A.D. 1700.

Dr. Kenneth Starr, Curator of Asiatic Archaeology and Ethnology, centered his research in the study of the Museum’s fine collection of Chinese rubbings (ink impressions on paper of inscriptions and designs on steles, bronze vessels, shrine and tomb walls, pottery, bricks, and tiles). This research, which involved the translation of relevant materials from Chinese and other languages, consisted of investigations into the origin and development of the practice of making rubbings, the materials and techniques used, the uses of rubbings and rubbing techniques, and the collecting and handling of rubbings (see facing page).

Dr. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, spent from early February through mid-July in London where he was engaged in the documentation of the Fuller Collection of ethnological and archaeological materials from the Pacific Islands (see pages 21 and 50) and in the preparation of the collection for shipment to the Museum. The documentation is extremely complete

RUBBING
OF
GRAVESTONE
OF
EARLY
CATHOLIC
MISSIONARY

PEKING
CHINA

D. O. M.

P. MATTHÆUS
RICCI, ITALUS
MACERATENSIS,
SOC. IESU PROFESS.
IN QUA VIXIT AN-
NOS XLII, EXPENSIS
XXVIII IN SACRA A-
PUD SINAS EXPEDI-
TIONE; UBI PRIM.
CUM CRIST. FIDES
TERTIO IAM INVE-
HERE TUR. SOCIO-
RUM DOMICILIA
EREXIT. TANDEM
DOCTRINE VIR-
TUTIS TAMA CELE-
BER OBIT PEKINI
A.C. MDCX. DIE XI.
MAIL. ET SUE LIX.

耶穌會士利公之墓

利先生瑪竇西泰大西洋意大里亞國人自幼入
會真修明萬曆壬午年航海首入中華傳教萬曆庚子
年來都萬曆庚戌年卒在世五十九年在會四十二年

because information recorded on tape for later transcription at the Museum was accomplished in collaboration with the collectors, Captain and Mrs. A. W. F. Fuller. Curator Force continued his research interests that bear on the social organization, political change, and native bead-money of the Palau Islands in Micronesia (see Annual Report 1956, page 40). The first of several projected manuscripts based on field work conducted in the Palaus from 1954 to 1956 was completed.

Dr. Donald Collier, Curator of South American Archaeology and Ethnology, worked on the analysis of data and collections gathered in 1956 during the archaeological expedition to Peru. A radiocarbon date of 342 B.C. \pm 80 years was obtained from the Lamont Geological Observatory of Columbia University on a sample from a wooden lintel in the hilltop fortress of Chanquillo in Casma Valley. This places the stone fortifications in Casma in the same period as the hilltop redoubts in Virú Valley to the north, which were studied in 1946 by the expedition to Peru. He continued to collaborate with Dr. A. L. Kroeber, Research Associate in American Archaeology, in preparation of a report on the Nazca culture of the south coast of Peru. Throughout the year he carried out research on Mexican archaeology in connection with reinstallation of Hall 8 (Ancient and Modern Indians of Mexico and Central America).

During the first part of the year Assistant Curator Rinaldo collaborated with Chief Curator Martin in preparation of a report on the excavations made during the summer of 1957. For his part in this report Dr. Rinaldo made an analysis that indicates that the source of some of the materials recovered might be assigned to the Concho Complex, a specialized manifestation of the more widespread Desert Culture (beginning of which is placed at about 9000 B.C.), whereas the tools and accessories of the later cultures possessed attributes of both those found in the Anasazi culture, located to the north, and the Mogollon culture to the south.

Phillip H. Lewis, Assistant Curator of Primitive Art, continued to develop the Division of Primitive Art in both its research and exhibition. In research the emphasis continued upon gathering factual information about the distribution, variation, meaning, and function of the art of primitive societies. Study of the Museum's Melanesian collections, particularly those from New Ireland, and of the African collections continued.

Led by Allen S. Liss, Custodian of Collections, and Dr. Elaine Bluhm, of the University of Illinois, excavation of the Anker site in south Cook County was carried on in co-operation with the Illinois Archaeological Survey as a joint project of this Museum and the



CLAY FIGURINES
(ABOUT 500 B.C.)
FROM
CHUPICUARO
MEXICO

DISPLAYED IN HALL 8

University of Illinois. This salvage project, necessitated by new housing developments, has added greatly to our knowledge of Illinois archaeology. Material found has given us information about burial practices, decorative art, and the daily pattern of life of the aboriginal inhabitants in the Chicago area between 1400 A.D. and 1600 A.D. Of special interest were the remains of a large structure, the first found in the area. The material is still being studied for a published report of the project.

After the Ninth Pacific Science Congress held at Bangkok late in 1957, Evett D. Hester, former Thomas J. Dee Fellow in Anthropology, in company with Professor Fred Eggan of the University of Chicago, made trips to the ruins of Angkor Wat and Angkor Thom and to Chiang-Mai. On returning from Chiang-Mai they visited the sites of Sukhotai and Sawankhalok where, with the permission and assistance of officers and archaeologists of the Thailand National Museum, they made collections of sherds of the rare 12th to 15th century ceramic wares produced at Turiang and Kawtroy kilns. The sherd collections were divided between the Philippine National Museum and Chicago Natural History Museum.

Accessions—Anthropology

The most outstanding accession of Oceanic materials in some years is the famed Fuller Collection (see pages 21 and 46). This collection (described in Chicago Natural History Museum *Bulletin*, September 1958), which numbers some 6,500 specimens that resulted from a collecting interest of great discrimination, contains ethnological and archaeological materials from virtually every part of Polynesia, Melanesia, and Australia. Most of the specimens were collected individually in the islands by early voyagers, missionaries, and British administrative officials, and it remained for Captain and Mrs. A. W. F. Fuller, of London, with the early collaboration of Captain Fuller's father, the Reverend A. Fuller, to bring the materials together from diverse sources in Oceania, England, and the Continent. Together with the Museum's already excellent and comprehensive materials that emphasize Melanesia in particular, the Fuller Collection provides a source for scientific study and exhibition that ranks exceptionally high among museums the world over.

Among other materials of note from the Pacific area that were added to the Museum's collection during the year are garments from New Zealand, Samoa, Fiji, and Hawaii presented by Mr. and Mrs. Paul Blackwelder of St. Louis in memory of Mrs. Blackwelder's

sister, Miss Frances Del Mar, author of *A Year Among the Maori*. When Evett D. Hester visited the central Philippine Islands on his trip to Bangkok (see page 50) he secured for the Museum a fine collection of ancient shell and paste-glass bracelets from Cebu in the Visayan Islands. Robert Trier, of McKenzie Bridge, Oregon, gave a fine Indonesian batik of unusual design. Captain and Mrs. Fuller, of London, presented an ancient Egyptian bracelet of gold in memory of their daughter Patience.

Received as a gift from Professor H. O. Beyer, Honorary Member of the Museum, are sixty-three prehistoric stone implements from the Philippine Islands, a representative collection that provides the Museum with the largest and most scientifically valuable assemblage of such tools in the United States. Through exchange with the Government Museum, Madras, India, a collection of paleolithic implements has been added to this Museum's collection. These handaxes, cleavers, and chopping tools of considerable antiquity, dating from the Middle Pleistocene, afford a rare opportunity to study some of the earliest tools made by man. Other materials received by the Department of Anthropology during the year are listed at the end of this Report (see page 118).

Care of the Collections—Anthropology

Under the direction of Custodian Liss, archaeological and ethnological specimens from India and related areas of southeast Asia were moved from the third floor to a new storeroom on the ground floor. This work, which included checking and reorganizing the specimens by geographic location, was carried on by Richard Wolfe, Antioch College student. Work was continued in rearranging and checking the Middle and South American collections that are being moved into Room 35. Assisting in this project under the supervision of Curator Collier and Custodian Liss were, during the year, Miss Hattula Moholy-Nagy (Museum Fellow), Richard Wolfe and Barry Alpher (Antioch College students), and Alfredo Evangelista (Thomas J. Dee Fellow in Anthropology). Purchase of additional steel storage-cabinets for the study collection of textiles of the world has made possible an expansion and reorganization of this collection, which work will be carried on into the coming year.

The primary effort in the Division of Asiatic Archaeology and Ethnology during the year was directed toward cataloguing and organizing the Museum's excellent collection of Chinese rubbings (see page 46). This highly specialized work, among the first of its

kind to be carried on in this country, is being undertaken by Dr. Hoshien Tchen, Consultant, East Asian Collection, and Curator Starr, with the assistance of Miss Lynn Beach, a volunteer whose remarkably careful work in repairing and organizing the delicate rubbings has been of inestimable value. Of significance also is the fact that Dr. Tchen and Curator Starr, aided by Miss Marimari Kellum, Antioch College student, completed the organization of the Laufer Collection of Chinese books and the transfer of these books to the East Asian Library (see page 82). Various other portions of the East Asian collections were cared for. The perishable materials (paper, basketry, wood, lacquer, and leather) were cleaned, given preservative treatment, and reorganized, for which Miss Kellum was also responsible. The collection of early bronzes from Luristan (Iran) was examined and when necessary given treatment to inhibit harmful corrosion—Richard Wolfe was helpful in accomplishing this important task. An excellent start was made toward complete reorganization of the large collection of Chinese and other East Asian coins, an exacting task that was undertaken by Barry Alpher, with the assistance of Miss Beach.

Exhibits—Anthropology

Fourteen new exhibits were prepared for Hall 8 (Ancient and Modern Indians of Mexico and Central America). Dioramist Alfred Lee Rowell completed a model in color of the temple of Quetzalcoatl at Teotihuacan, Mexico, and continued work on a diorama of an Aztec market. A new map case showing the culture and tribal areas of Madagascar was installed in Hall D. A special exhibit "What Is Primitive Art?" was shown during the summer months in Stanley Field Hall (see page 26). The exhibit, which defined primitive art and served to introduce to the Museum public the extensive art holdings of the Museum, has since been moved to the ground floor, where it may be seen in the corridor leading from Hall C to Hall E. All of these exhibits were designed by Artist Gustaf Dalstrom and prepared by him and Preparator Walter C. Reese. The materials used in the exhibits were mended and restored for the department by Ceramic Restorer Walter Boyer.

Department of Botany

Research and Expeditions

The Department of Botany's long-standing reputation for research in South American botany was recognized by the award of a commemorative medal issued for the celebration on June 13, 1958, of the sesquicentennial of the establishment of the Botanical Garden of Rio de Janeiro. The medal, now on display in the departmental library, was transmitted to Chicago Natural History Museum through the courtesy of the Department of State of the United States and Dr. G. H. M. Lawrence, Director of the Bailey Hortorium of Cornell University, Ithaca, New York.

The Curator Emeritus of Botany, Dr. B. E. Dahlgren, continued his systematic studies of the genus *Copernicia* in collaboration with Dr. Sidney F. Glassman of the University of Illinois (Navy Pier, Chicago). As a direct result of this work a new name (*Copernicia leoniana* Dahlgren and Glassman, see page 55) was given to a Cuban species of palm (formerly called *Copernicia burretiana* León) that was described originally by the late Brother León (Dr. Joseph S. Sauget y Barbier), for many years a Corresponding Member of the Museum (see Annual Report 1955, page 24). During the summer Dr. Glassman made a field trip to Cuba and southern Florida to collect additional *Copernicia* material. Work was also continued on revision of the "Index of American Palms."

J. Francis Macbride, Curator of Peruvian Botany, studied various families in preparation of additional parts of *Flora of Peru*. The University of California botanical expedition to Peru under the leadership of Professor T. H. Goodspeed, supported in part by the Museum, returned with extensive collections of cacti and other plants. Paul C. Hutchinson, of the Botanical Garden of the University of California, is already actively engaged in preparing his treatment of the family Cactaceae for the *Flora of Peru*. Dr. Rogers McVaugh, who is Curator of Vascular Plants at the University of Michigan and a Research Associate on this Museum's staff, began work on his critical catalogue of the Sessé and Mociño collection of Mexican plants on loan from Madrid. During a visit to the Museum in June he went over the entire collection, of which about a thousand specimens are yet to be identified. In this work he will be assisted by a number of specialists. In September he collected in the vicinity of Apatzingán, Michoacán, a locality visited by Sessé and Mociño in 1790, and expects to correlate his material with their collections.

Dr. Earl E. Sherff, Research Associate in Systematic Botany, identified large consignments of Hawaiian and Mexican plants and published a paper (see page 106). During the year he made two trips through the Upper Peninsula of Michigan to study local flora. Dr. Margery C. Carlson, Associate in Botany, continued her study of Central American Loranthaceae before leaving in September for an extended tour of Europe.

Dr. Theodor Just, Chief Curator of Botany, continued his synoptical studies of gymnosperms and comparative studies of modern and fossil angiosperm pollen. In addition he prepared for publication a bibliography of American paleobotany (1953-57), in which work he was aided by Miss Mary-Ann Baugh, student assistant. Several papers dealing with various aspects of paleobotany were completed by the end of the year and now await publication in several American scientific journals.

Before his resignation Dr. Francis Drouet, Curator of the Cryptogamic Herbarium, continued research on blue-green algae. Dr. Hanford Tiffany, Research Associate, conducted research in the taxonomy of the Oedogoniaceae and published a revised edition of his eminently readable book, *Algae, The Grass of Many Waters*.

Dr. John W. Thieret, Curator of Economic Botany, continued his studies of various tropical American Scrophulariaceae and temperate and subarctic Gramineae. Preparation of entries on the Scrophulariaceae for the *Index Nominum Genericorum* and the treatment of this family for the *Catálogo e Estatística dos Gêneros Fanerogâmicos* were also continued. Accompanied by Chester F. Hansen, a member of the faculty of York Community High School in Elmhurst, Illinois, he conducted a field trip to the northern Great Plains of the United States and Canada in July and August (see page 40). There special attention was given to the study and collection of grasses, and a week was spent at Ft. Providence, Northwest Territories, Canada, on the Mackenzie River west of Great Slave Lake, in studies of grassland vegetation. A brief trip along the shores of Lake Michigan and Lake Huron was taken in September to make mass-collections of *Calamovilfa longifolia* to supplement those made in the Great Plains.

Miss Edith M. Vincent, Research Librarian, prepared indices for various volumes of Museum botanical publications. She added numerous references to current botanical literature to the unpublished parts of the *Flora of Guatemala* (Standley and Steyermark). In addition to her regular duties she assisted many correspondents by finding and sending to them descriptions of and information about various plants.



SPECIMEN OF CUBAN WAX PALM
"COPERNICIA LEONIANA"

Exhibits—Botany

The task of rearranging and reinstalling exhibits in the Hall of North American Trees (Hall 26, Charles F. Millspaugh Hall) was continued throughout the year and the entire hall soon can be reopened. Nineteen exhibits were reinstalled, most of the work for which was carried on jointly by Curator of Exhibits Emil Sella, Technician Frank Boryca, and Preparator Walter Huebner, with the assistance of Artist-Preparator Samuel H. Grove, Jr. Four new branches of conifers were prepared from original material by Curator Sella and added to these exhibits: eastern hemlock (*Tsuga canadensis*), Norway pine (*Pinus resinosa*), red spruce (*Picea rubens*), and pitch pine (*Pinus rigida*). An attractive reproduction of a fruiting branch of madroño (*Arbutus Menziesii*), an evergreen tree of the Pacific coast, was completed by Artist-Preparator Grove and installed in Martin A. and Carrie Ryerson Hall (Hall 29, Plant Life) with the heath family. A new mural of *Gunnera magnifica*, the work of E. John Pfiffner, Staff Artist, shows the strange gigantic herb found at altitudes around ten thousand feet in the Andes of Colombia, a remarkable plant that was discovered in 1944 by Professor Harold St. John while he was a member of the Cinchona Mission.

The Board of Trustees honored Stanley Field on the occasion of his fiftieth year as President of the Museum by designating the collection of plant models on display in Hall 29 and other halls of the Museum as "The Stanley Field Collection of Plant Models" (see page 23). An engraved plaque commemorating this event was installed in Hall 29.

The special exhibit in Stanley Field Hall from October 4 through October 12 of three hundred living orchid plants and an equal number of fresh-cut orchids (see page 26) was shown through the cooperation of the Illinois Orchid Society and some seventy-five orchid growers of the Middle West, California, Florida, and Hawaii. The plants were displayed in a prefabricated greenhouse erected for the purpose and furnished through the courtesy of Lord and Burnham, greenhouse contractors. The background exhibit included watercolors of orchids from various parts of the world (by H. Gilbert Foote, a Chicago artist), a series of large published prints of orchids from the Botanical Library of the Museum, copies of the Museum's publications on tropical American orchids, and selected herbarium specimens of orchids, native and foreign. In planning, arranging, and setting up this exhibit the staff of the Museum was assisted most effectively by Gilbert S. Daniels of Evanston, vice-president of the Illinois Orchid Society, and by several members of that society.



CURATOR OF EXHIBITS SELLA (RIGHT) AND PREPARATOR HUEBNER
MOUNT A LABEL FOR A REINSTALLED EXHIBIT IN
THE HALL OF NORTH AMERICAN TREES

Accessions—Botany

The largest gifts to the phanerogamic herbarium consisted of 4,723 plants of the United States collected by Holly Reed Bennett of Chicago and 183 mounted herbarium specimens of cycads donated by the University of Chicago. The largest collections of plants acquired through exchange were received from the University of Michigan (1,118 phanerogams of Norway and Sweden collected by Louis Jordal and 1,338 vascular plants of Australia collected by M. S. Clemens) and from DePauw University (1,317 vascular plants of Jamaica collected by Professor G. T. Yuncker). A notable collection of 1,475 phanerogams of Costa Rica made by Dr. Carlson, Associate, was purchased from her. The cryptogamic herbarium was given an interesting collection of 79 fungi by Associate Curator Henry S. Dybas, of the Museum's Department of Zoology.

Care of the Collections—Botany

During the year 15,478 plants were mounted and added to the phanerogamic herbarium. Mounting and poisoning were done by Mrs. Ann Bigelow, Miss Olive Doig, Mrs. Jennie Pletinckx, and Nils Siegbahn, aided by Robert Yule and, for part of the year, by Miss Mary-Ann Baugh, Miss Elaine Herman, Miss Linda Oatman, and Miss Adrienne Watkins (student assistants) and by Miss Karin Krause, Miss Ruth A. Morris, Miss Patricia Roth, and Miss Alice Schwartz (Antioch College students). Additional aid in plant mounting was furnished in November and December by Group 1 of the Girl Scouts of Du Page County (Mrs. E. C. Gollan, Leader, Downers Grove) as their Museum Aid Project. A total of 23,382 phanerogams was sent out in exchange. Miss Alice Middleton and Mrs. Effie M. Schugman mounted 123 specimens of cryptogams for the general collection and repaired and remounted 7,850 specimens. During the year a total of 130 wood specimens was sent out in exchange. Curator Thieret was assisted in the care of the wood, seed, and economic collections for part of the year by Mrs. Bigelow and Miss Watkins. Work on restoration of the type-photograph collection was continued by Assistant J. S. Daston before his nine-month leave of absence. Mrs. Lenore B. Warner catalogued and filed prints of the type-photograph collection, handled orders and exchanges, continued the preparation of a Generic Index file for the Macbride Collection, and indexed and prepared herbarium sheets to be photographed and added to the general collection.

Department of Geology

Research and Expeditions

Dr. Rainer Zangerl, Curator of Fossil Reptiles, and Dr. Robert Sloan, of the University of Minnesota, collaborated in the study of a Cretaceous sea turtle (*Desmatochelys mowi williston*). He also completed the study of another Cretaceous sea turtle from the Mooreville Chalk of Alabama and prepared two papers.

The National Science Foundation awarded a substantial three-year grant to Curator Zangerl and Dr. Eugene S. Richardson, Jr., Curator of Fossil Invertebrates, for the continuation of the paleoecological phase of the Mecca project (see Annual Report 1957, page 53). Studies of the Pennsylvania black shales from the Mecca and Logan quarries, Parke County, Indiana, by Zangerl and Richardson continued throughout the year and together they made the first review of the vast collection. Many specimens were trimmed to suitable size and X-rayed. The task of cutting and trimming the specimens was entrusted to Miss Patricia Hutson, Antioch College student.

With the coming of the field season Curators Zangerl and Richardson returned to the Logan quarry (see page 40) to complete the excavation that was begun there in 1957 (see Annual Report 1957, page 55). They were ably assisted by Preparator Ronald J. Lambert and temporarily appointed preparators Edward Richardson and Chin Chen. Others who cheerfully responded for the hard work of excavation were Duncan Dunlap, Antioch College student, and volunteers Charles Knowles, Stephen Collings, and William Herbert. Work at Logan quarry was completed in October, and 652 specimens were collected during the season. Mr. and Mrs. P. Herbert Logan, of Indianapolis, after whom the Logan quarry is named, again kindly permitted the Museum party to work on their land and provided the use of a small house for the summer. Their co-operation and timely help are most thankfully acknowledged.

Following the Museum's acquisition of the Charles D. Nelson Collection (see page 63), Curator Richardson began the task of identifying its eighty-three thousand fossil invertebrates. Mr. Nelson's interest in collecting embraced most of the geologic systems and many parts of North America, so that his collection complements that of the Museum in many important respects. During the year Curator Richardson identified and catalogued several hundred Nelson specimens of Pleistocene and Pliocene mollusks from Florida and incorporated them in the study collection. Also he treated with

formic acid a number of the insect-bearing Miocene concretions from the Mojave Desert (see page 63). The insects, preserved three-dimensionally in acid-insoluble minerals, are microscopic, some no longer than one-fiftieth of an inch. The specimens, which were sorted according to species, were mounted for permanent reference.

George Langford, Curator of Fossil Plants, concentrated his work on the Museum's large and representative plant collections from the Pennsylvanian of Will and Grundy counties, Illinois. He also worked on the flora of the Upper Cretaceous and Lower Eocene of the southern states, giving special attention to new species, many of which he described and drew or photographed. His manuscript on the Wilmington coal flora on which he labored for more than two decades was published during the year by the Earth Science Club of Northern Illinois (see page 107). A voluminous work of 360 pages illustrated by 455 photographs and 200 drawings, it should be of great service to all interested in the Pennsylvanian flora.

Dr. Robert H. Denison, Curator of Fossil Fishes, devoted much of his time to a study of the Lower Devonian fishes from Ohio in the collection of Dr. J. Ernest Carman (see Annual Report 1956, page 56). The sorting and preparation of hundreds of specimens, which had been a time-consuming but a rewarding task, furnished a large amount of material of one species that he needed for the particular type of study in which he was engaged—a study of growth and variation. He also made a restoration of the shield of a small Lower Devonian arthrodire, *Bryantolepis*, from Wyoming.

William D. Turnbull, Assistant Curator of Fossil Mammals, worked on the introduction to his proposed report on the mammalian fauna of the Washakie formation of Wyoming, which contains a historical review of the previous work done on the vertebrate faunas and a section on the geology of the region. Accompanied by David Collier, who had volunteered to assist him in the field, he returned to the Washakie basin for about two months during the summer and completed the field survey of the stratigraphy and geology of the area (see page 40). Noteworthy among materials collected were a uinathere pelvis, a crocodile skull, a mammalian microfauna, and two partial skeletons, one a primate the other a taeniodont. Turnbull also made progress in his studies of the adaptive types of mammalian masticatory apparatus and, in relation to this, he dissected and studied the jaw musculature of a representative of each of the three major rodent groups.

Since joining the staff in August, Bertram G. Woodland, Associate Curator of Petrology, acquainted himself with the collections in his care and did preparatory work in the Chemical Laboratory

for quantitative analysis. He pursued his petrographic research on igneous and metamorphic rocks of an area in northeast Vermont. Albert W. Forslev, Associate Curator of Mineralogy, began a comprehensive investigation of the mechanical, chemical, and mineralogical properties of sediments and sedimentary rocks to gain information on factors affecting the stability of minerals in sediments, the rearrangement of constituent minerals during the consolidation and low-grade metamorphism, and the formation of clay minerals. The reported occurrence in Arizona of ecdemite, a rare oxychloride of lead and arsenic, drew his attention. Doubtful of the report of the occurrence, he obtained some twenty specimens, all supposedly ecdemite, from various collectors in the Southwest. Careful study and X-ray analysis of the specimens confirmed his doubt. All proved to be mimetite, a more common mineral similar in composition to ecdemite. The X-ray diffraction equipment of the William J. and Joan A. Chalmers Mineralogical Laboratory was in almost constant use during the year for the identification of many unusual minerals obtained by the Museum.

Dr. Sharat K. Roy, Chief Curator of Geology, returned to his duties after a year's stay abroad, where he was engaged in research and consultation on stony meteorites, especially concentrating on those that contained certain rounded grains called chondrules. Believing that chondrules, the like of which, structurally or in manner of crystallization, have not been observed in terrestrial rocks, may hold the key to the origin of meteorites at large, Chief Curator Roy set out to examine petrographically as many thin sections of chondritic meteorites as he could. During this examination he noted the order in which the different minerals have appeared and the degree of metamorphism they have undergone. He also noted the textural and structural variations and the distribution and interrelationships of the various components of the chondrules. The petrographic study was supplemented by microphotographs of thin sections, both in color and black-and-white, taken to provide the necessary information for interpretation of the features observed under the microscope and as a reference for comparison.

It is hoped that the knowledge gained by this critical study of chondrules will remove certain existing uncertainties and help build an acceptable theory of their origin and development. Dr. Roy wishes to express his grateful appreciation for the research grant he received from the National Science Foundation to pursue the study. He also wishes to extend his hearty thanks for the cordial co-operation and use of laboratory facilities given him by the various institutions he visited in Europe and India.



MISS MAIDI WIEBE
ARTIST IN THE
DEPARTMENT OF GEOLOGY

MODELING A DEVONIAN FISH
FOR A NEW EXHIBIT OF FOSSIL FISHES

Accessions—Geology

The purchase of the collection of the late Charles D. Nelson of Grand Rapids, Michigan, was the most outstanding accession of the year, both in number of specimens and in importance. Included in the collection are several hundred fossil plants and about eighty-three thousand fossil invertebrates. Of the fossil plants, a large and well-preserved trunk of a fossil cyclid tree is of particular interest. The collection also includes some four thousand mineral specimens and a large quantity of material of economic importance. Many of these mineral and ore specimens were collected from such world-famous localities as Franklin Furnace, New Jersey, Crestmore, California, and Magnet Cove, Arkansas, and cannot be duplicated now.

An exchange with Mr. and Mrs. Samuel Kirkby of Riverside, California, enriched our collection with 880 insect-bearing concretions from the Miocene Barslow shale of the Mojave Desert, California (see page 60). The insects are preserved in three dimensions and are in some respects superior even to the famed amber insects of the Baltic Oligocene.

Erik N. Kjellesvig-Waering, Research Associate, presented about a hundred specimens of fossil invertebrates that he had collected while on an exploratory visit to Yaurichambi, Bolivia. This is a classic locality from which Alcide d'Orbigny, a century ago, described several important fossils, of which representatives are included in this valuable collection. Dr. and Mrs. Robert H. Whitfield, Associates in Fossil Plants, gave 150 excellent specimens of Lower Eocene flora that they collected in Puryear, Henry County, Tennessee. Other materials received by the Department of Geology during the year are listed at the end of this Report (see page 120).

Care of the Collections—Geology

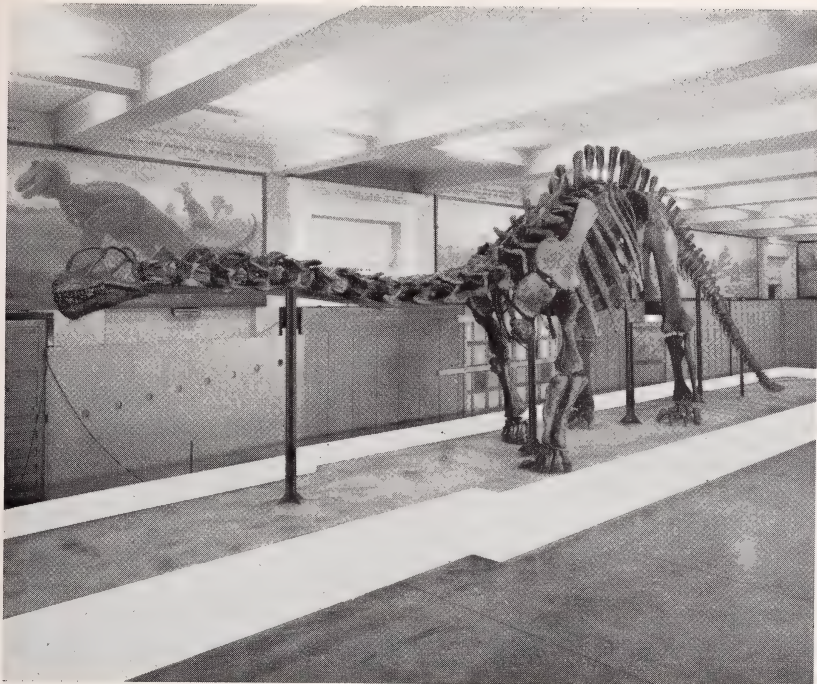
With the aid of Duncan Dunlap, Miss Nancy Hayes, and Ben Massie, Antioch College students, the study collection, with the exception of the silicate minerals, was reclassified according to the new Dana's System of Mineralogy. Approximately ten thousand specimens were rearranged in the collection, all identification labels were verified, and mineral names were brought up to date on the labels. David Techter, Assistant in the Division of Fossil Vertebrates, catalogued the entire Bebb Collection of La Brea tar-pool mammals that was a gift of Northwestern University Dental School (see Annual Report 1954, page 54) and completed the task

of integrating into the Museum's fossil-mammal collection a great number of Oligocene mammals received from the University of Chicago. In preparation for the new exhibits of meteorites the last of the meteorites was removed from Hall 35 (see page 66) and placed in the study collection. Henry Horback, Assistant in Geology, who reweighed every specimen in the collection, is to be credited for the excellent manner in which he has arranged the entire collection.

Exhibits—Geology

The mount of the incomplete *Brontosaurus* skeleton, which had been on exhibition in Ernest R. Graham Hall (Hall 38) since 1921, was successfully completed during the year (see pages 21 and 95), a task made possible by the acquisition of the missing parts, although from a different individual, by a Museum expedition in Utah in 1942. The preparation and assembling of the parts were accomplished primarily by Orville L. Gilpin, Chief Preparator of Fossils, who was ably assisted by Preparator Lambert, and both men are to be congratulated for their skill in adding the new materials to the old mount so perfectly that all parts of the skeleton seem to have been mounted at the same time. The finished exhibit was displayed to the public on Members' Night, April 18 (see page 36). Chief Preparator Gilpin also remounted the damaged skeleton of the giant Irish deer that had been long on exhibition in Hall 38.

First steps were taken during the year toward preparation of a completely new series of fossil-fish exhibits to be arranged systematically. A few large and spectacular fishes will be featured, one of which is an exceptionally fine fourteen-foot specimen of the teleost *Portheus* from the Walker Museum of the University of Chicago. Also to be displayed are the fifteen-foot shark from Indiana collected by Curators Zangerl and Richardson (see Annual Report 1957, page 56) and one of the huge armored fishes, or placoderms, of the Devonian period, *Dunkleosteus* (Chief Preparator Gilpin assembled and mounted a cast of one of the best specimens of *Dunkleosteus*). Fossil fishes are generally not preserved well enough to give a clear idea of how they might have looked in life. To make visualization of the forms more distinct a number of extremely lifelike restorations to be used in the planned exhibits were completed by Miss Maidi Wiebe, Departmental Artist, who is to be commended for the restorations in natural size of the jawless fishes *Pteraspis*, *Hemicyclaspis*, and *Pharyngolepis* and of the placoderms *Coccosteus* and *Gemundina*.



COMPOSITE SKELETON OF
"BRONTOSAURUS EXCELSUS"

THE NEWLY COMPLETED DINOSAUR MOUNT
DISPLAYED IN HALL 38

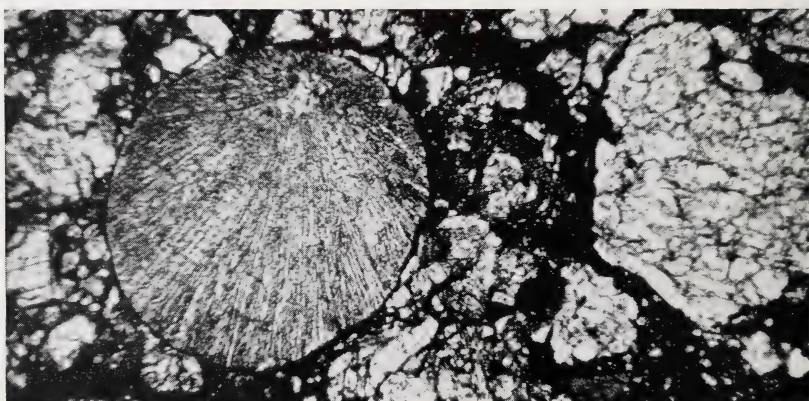
THE SKELETON
IS SHOWN HERE
JUST BEFORE IT
WAS PLACED
ON EXHIBITION

One of the two new exhibits in the Hall of Economic Geology (Hall 36) shows silver, lead, and zinc ores from the famed mines of Laurium, Greece. The other is devoted to the mineral resources of the State of Illinois, in which connection thanks are given for his timely help to George M. Wilson, head of the Educational Extension Division of the Illinois Geological Survey.

Twenty new exhibits were installed in the new Hall of Meteorites and Minerals (Hall 35), of which the completed mineralogical section contains eleven exhibits of materials introductory to mineralogy, twenty of minerals arranged systematically, and eight of uncommon minerals. Work on the meteorite exhibits, which occupy the west end of Hall 35, was resumed upon the return of Chief Curator Roy (see page 61), and one exhibit (classification and structure of meteorites) neared completion at the end of the year. Eight cases housing large meteorites were rebuilt by the Division of Maintenance. The huge model of the moon at the west wall of Hall 35 was renovated and set in a sky-blue background, which, artfully illuminated by the Division of Engineering, is strikingly effective and lends to the entire hall a pleasing appearance.

Harry E. Changnon, Curator of Exhibits, Assistant Horback, and Preparator Henry U. Taylor successfully carried out this exhibition program. Associate Curators Forslev and Woodland were largely responsible for the sequence of the exhibits, the descriptive labels, and the selection of specimens. Drawings of crystal structure and diagrams are the competent work of Miss Wiebe, Artist.

Microphotograph of a thin section of
a chondritic stony meteorite (see page 61)



Department of Zoology

Research and Expeditions

Peru, Colombia, the Atlantic off Surinam (Guiana), the United States, Egypt, Nepal, and Malaya—each was the scene of activities by staff members, and also an expedition in Colombia was made by a nonstaff member. Despite the demands of specialization that dictate that most of a field worker's attention be given to his specialty, usually at least some additional material is secured.

SOUTH AMERICA. *Peru:* Curator Emmet R. Blake carried on field work (June–November 1958) in the Amazonian lowlands east of the Andes in the southeastern part of the country, where he traveled on the Rio de Madre de Dios (see pages 22 and 40) and made the first sizable collection of birds (1,046 specimens) from the area. *Colombia:* Field Associate Frederick J. Medem (of Instituto de Ciencias Naturales, Bogotá, Colombia) sent us a small but important collection of mammals. Kjell von Sneidern (of Popayan, Colombia) collected mammals and some birds for us in the little-known southwestern part of Colombia (see page 40). *Atlantic off Surinam (Guiana):* Again this year Curator Loren P. Woods participated in co-operative field work with the United States Fish and Wildlife Service on the research vessel *Oregon* (August–September 1958) in continuation of similar work in the equatorial western Atlantic in 1957 (see page 40). Before these collections were made, the offshore fauna of these regions was unknown. The combined fish collections that came to us from the dredging done on these trips (some 5,580 specimens) represent numbers of undescribed species, range extensions, and material for comparison with specimens from the Caribbean as well as provide a basis for study of the fishes that occur there.

UNITED STATES. *Illinois:* Associate Curator Henry S. Dybas made a field trip to southern Illinois (see page 40) to collect from leaf litter the minute beetles of the family Ptiliidae (feather-wings) for his long-range study of this group. Curator Rupert L. Wenzel made a number of short trips to the nearby Indiana dunes to collect certain living beetle material for anatomical studies. *Iowa:* Curator Woods made a two-day field trip in Iowa to work in co-operation with the annual collecting trip of the John G. Shedd Aquarium (Chicago) and with the United States Fish and Wildlife Service. Specimens were collected for the Museum's reference collection, some large specimens were selected to be made into skeletons, and photographs of some species were taken for a forthcoming handbook on local fishes.

OLD WORLD. *Egypt*: Research Associate Harry Hoogstraal, stationed in Egypt, continues to send us mammals, birds, reptiles, amphibians, and ectoparasites. *Nepal*: Field Associate Robert L. Fleming continued with his mission in Nepal. A shipment from him contained 54 species of birds that he had not found hitherto in Nepal (his earlier collections listed 490 kinds of birds). *Malaya*: Curator D. Dwight Davis (Vertebrate Anatomy) engaged in six weeks of field work studying the fauna of the rain forest north of Singapore (see page 40).

The many collections that we have been accumulating are providing the raw material for a rich harvest of research. Much of this research is centering on comprehensive regional accounts of certain groups of animals, checklists or other faunal reports of larger or smaller parts of the globe, or comprehensive treatments (varying from checklists to monographs) of animals or groups of animals. These are usually projects that take years to complete. During their progress entrancing side-issues appear that sometimes are followed up, with results that may be elaborated into important pieces of research. Sometimes routine curating necessitates research that also results in published reports.

DIVISION OF MAMMALS. The checklist of South American mammals, now two-thirds completed (aided by a grant from the National Science Foundation), continues to occupy Curator Philip Hershkovitz. In pursuance of this work he made a trip to the British Museum (Natural History) in London, where he studied types of South American mammals housed there. This work has also necessitated a review of the deer and short papers on rodents, dogs, and technical nomenclature problems. Interrupting his studies, as in former years, is the periodic need for identification of mammals for various specialists studying the ectoparasites that were collected with the mammals. This is especially important in the African material collected by Research Associate Hoogstraal, who is as much interested in the parasites as in the vertebrates he collects.

DIVISION OF BIRDS. Although absence on field work in Peru (see page 67) has curtailed Curator Blake's research, he continues to specialize in the systematics of Neotropical birds. He reviewed a group of wood partridge and has started a report on the Cerro Macarena (eastern Colombia) bird collection received last year. Assistant Curator Melvin A. Traylor, Jr., completed the report on the collection of Gabon birds (with Chief Curator Austin L. Rand), began a report on the Angola bird collection and a checklist of the birds of Angola, reviewed the African grey tits (with Mrs. B. P. Hall of the British Museum), and prepared a paper on polymorphism in



CURATOR BLAKE IN CAMP

CONOVER PERU EXPEDITION
TO COLLECT BIRDS IN
THE AMAZONIAN LOWLANDS

an African flycatcher and several short taxonomic papers. Associate D. S. Rabor returned to Chicago for the summer after a year at Yale University and while here completed (with Chief Curator Rand) reports on the birds of several Philippine islands and a few short taxonomic papers. Chief Curator Rand has also started a review of the sunbird for the continuation of Peters' *Checklist of Birds of the World* (a series published by Harvard University) and prepared a paper on the tarsal envelope of song birds and its use in classification. Associate Ellen T. Smith has completed a guide to the birds of the Chicago area (see page 102).

DIVISION OF AMPHIBIANS AND REPTILES. The report on the huge collection of Congo frogs from Parc National de l'Upemba, Belgian Congo, by Curator Robert F. Inger and the late Curator Emeritus Karl P. Schmidt (see Annual Report 1955, page 58) is finally completed and in press. Curator Inger has also completed a survey of the amphibians of South Africa, based on the collections made in 1950-51 by the expedition from Lund University (Lund, Sweden), at the request of the university and to be published by it. He is also continuing his studies of the reptiles and amphibians of Borneo, whence he is receiving additional new material from time to time. Among studies completed are papers on new catfishes from North Borneo and a new toad from Sarawak and notes on a Bornean glass snake. Assistant Hymen Marx continued his studies of the reptiles of North Africa and Southwest Asia and completed manuscripts on Egyptian snakes of genera *Psammophis* and *Cerastes*.

DIVISION OF FISHES. Curator Woods continued his intensive study of marine fishes of the Gulf of Mexico, Caribbean Sea, and equatorial Atlantic (see page 67). Associate Marion Grey carried on her survey of fish fauna found below a depth of about 900 meters. She completed the preliminary report of the Family Gonostomatidae for *Fishes of the Western North Atlantic* (a series of volumes published by Sears Foundation). She also completed a manuscript on fishes collected from the Gulf of Mexico by the research vessel *Oregon* (see page 67 and Annual Report 1957, page 60). Associate Edward M. Nelson continued his study of electric organs in fishes.

DIVISION OF INSECTS. Curator Wenzel's main project, a monograph on histerid beetles of the genus *Margarinotus*, is nearing completion. In the course of this work he has studied and identified about 40,000 specimens from Europe, Asia, and North America, many of the specimens on loan from other institutions. He completed a short paper on the genus *Margarinotus* for inclusion in Professor Melville Hatch's *Beetles of the Pacific Northwest* and another short paper describing several new species of histerid beetles from the

Pacific Northwest. Associate Curator Dybas has commenced a revision of the Limulodidae, a family of minute beetles related to Ptiliidae. Dybas and Research Associate Charles H. Seevers proposed and defined this family, which includes about thirty species, some years ago. Now a revision is necessary because of the receipt of much additional material, with many new genera and species, from Panama. Much of this new material was collected by Carl Rettenmeyer of the University of Oklahoma, who has made the largest collection ever brought together of this interesting group of ant guests and has sent it here for study by our specialist Dybas. Research Associate Seevers has continued his studies of the classification of rove beetles (family Staphylinidae) and is currently preparing a taxonomic monograph and evolutionary study of the species that live with driver and army ants. Associate Harry G. Nelson studied the comparative anatomy of the female reproductive system of the dryopoid water beetles. Associate Lillian A. Ross continued her study of spiders.

DIVISION OF LOWER INVERTEBRATES. Curator Fritz Haas made studies of families of land-living snails from the West Indies and the Dutch possessions in South America, to be published in Hummelinck's *Studies on the Fauna of Curaçao and Other Caribbean Islands*. Assistant Curator Alan Solem, who was absent from the Museum until April for naval training, completed an annotated checklist of New Caledonian nonmarine shells, reported on a collection of snails from a New Caledonian river drift, published two papers on South Pacific marine shells, two papers on Indonesian and Australian landsnails, and a review of the biogeography of the New Hebrides (see page 108), and also started work on an eventual monograph of the nonmarine mollusks of Panama.

DIVISION OF VERTEBRATE ANATOMY. Curator Davis continued study of the comparative anatomy and evolution of the carnivores. With Associate Waldemar Meister he prepared a paper on the placentation and foetal membranes of a tree shrew, *Tupaia tana*. Research Associate R. M. Strong continued his study of the anatomy of birds.

Accessions—Zoology

The extent to which our collections are growing is indicated by the material acquired during the year: mammals—1,271 specimens, birds—2,152 specimens, amphibians and reptiles—4,117 specimens, fishes—approximately 10,000 specimens, insects—87,727 specimens, lower invertebrates—more than 425,000 specimens, and anatomical

material—66 specimens. Some of these came from our expeditions (see page 40). Others were purchases, exchanges, or gifts that range from single specimens to comprehensive collections. Some of the more noteworthy items are mentioned here (materials received by the Department of Zoology during the year are listed at the end of this Report, page 121).

A collection of 968 specimens of reptiles and amphibians purchased from William Hosmer, of Melbourne, is not impressively large in numbers, but it is the sort of collection we like to acquire because its 250 species are remarkably selected and represent nearly three-quarters of the species known from Australia. Our herpetological representation from Formosa, which has a good endemic fauna, was practically nil until we began to identify reptiles and amphibians for Dr. Robert E. Kuntz, who is working on parasites and medical research there. During the past year we received, among other specimens, 1,248 reptiles and amphibians for our collection, a good representation of the Formosan fauna, in exchange for identifications.

We have had a replica of the strange coelacanth fish known as *Latimeria chalumnae* that was reconstructed from photographs and published measurements shortly after this "living fossil" was discovered in the Mozambique Channel. This year we purchased from the National Museum in Paris a plaster cast of an actual specimen. Differing in many details from the reconstruction, the cast gives a rather different and much better idea of this strange deep-water fish of which only about a dozen have been collected.

A notable gift of insects was made by Research Associate Seevers. The Museum recently published his monograph on the rove beetles that live with termites (Fieldiana: Zoology, volume 40, 1957), and Dr. Seevers has now donated to the Museum the collection on which this study was based. The collection contains 2,131 specimens, including the types of 68 species of these rare beetles, and is the most important and complete collection of its kind in existence. The true bugs (Heteroptera) were one of the favorite groups of the late Curator Emeritus William J. Gerhard. Before his death in December he gave us, from his private collection, a final lot of 1,065 North American Heteroptera. A purchase of 14,581 insects from the collector, Fritz Plaumann, of Brazil, is the raw material for much further research, containing as it does many specimens of the groups in which our specialists are interested. Some 41,700 insects collected by the Philippine Zoological Expedition of 1946-47 have been prepared and accessioned. This completes the accessioning of this collection, which amounts in its entirety to about 80,000 specimens.

About 21,300 insects and their allies, collected by Associate Curator Dybas on various field trips in the United States during the last six years, were also accessioned.

Mollusks were added to the collections at such a rate that the size of our collections was about doubled this year. The additions were acquired through purchases, gifts, and exchanges. Some of the additions were: more than 300,000 specimens representing about 18,000 species, a worldwide collection purchased from the estate of the late Charles D. Nelson of Grand Rapids, Michigan; about 75,000 specimens of nonmarine shells from the middlewestern United States, collected by the late A. C. Billups of Lawrenceburg, Indiana (purchase); a very complete synoptic set of Malayan and Indonesian nonmarine shells collected by Dr. F. F. Laidlaw of England (purchase); and a set of more than 8,000 Libya desert snails purchased from Dr. Rolf Brandt of Libya. An exceptionally fine series of cone and cowry shells was donated by Dr. Jeanne S. Schwengel of Scarsdale, New York, and a magnificent collection of some 7,000 marine shells, many of which are large and exceptionally beautiful in color and form, was given by the estate of the late Dr. C. W. Yarrington of Gary, Indiana (see pages 22 and 76).

Care of the Collections—Zoology

Before a specimen is incorporated into our study collection, in no matter what group, the labeling must be checked and, where necessary, labels conforming to our standards added. This labeling enables us to tell whence any specimen came and when and by whom it was collected. We also like to have the name of the animal written on the label, so that anyone can tell what the animal is, and the name of the Museum, indicating our ownership.

Problems of labeling vary, as one might expect when such diverse objects as tiny seashells, elephant skins, leafhoppers, snakes, and fishes are handled and when some of the specimens are preserved wet, in pickle, others are dried in one piece, and yet others, like disarticulated skeletons, are composed of many small parts. In no group does this labeling require more painstaking care than in insects. The pin that holds the specimen may also carry four or even more labels (see page 75).

This labeling as well as other duties in the care of the collections are routine: poisoning to prevent ravages by insect pests, making sure that the preservative on each pickled specimen is adequate, and rearranging the collections to include new material. During the year

the staff has been aided in this work by several summer assistants, a number of volunteer assistants, and three Antioch College students (Miss Karin Krause, Miss Antoinette Martti, and Miss Jane Netting).

The purchase of 31 large dustproof, lightproof steel cases for filing study-specimens of mammals and birds allowed a slight expansion of both collections. In the resulting rearrangement the bats and the pigeons, parrots, plantain-eaters, and cuckoos were moved to more satisfactory quarters. Tanner Dominick Villa and Assistant Taxidermist Mario Villa prepared large and medium-sized mammal skins for the study collection. Assistant Pearl Sonoda continued the rearrangement, begun last year, of the fish collection.

In the Division of Insects there was great activity in handling our large recently acquired collections. Associate Nelson rearranged the entire beetle collection to conform to a modern system of classification and to provide space for expansion. The transfer and integration of the Knirsch collections of palearctic beetles (50,748 specimens), begun in 1957, and the Knirsch and Benesh collections of stag beetles (Lucanidae, 10,000 specimens) were completed, and transfer and integration of the Knirsch collection of cetoniid beetles (30,000 specimens) and the Brancsik world collections of beetles (74,467 specimens) were begun. There were combined operations in which Assistant August Ziemer and Associate Nelson, as well as other members of the staff, summer assistants, and volunteer assistants, took part. Curator Emeritus Gerhard had almost completed before his death the reorganization of the Orthoptera collections (katydids, grasshoppers, and others). Research Associate Seevers rearranged much of the Bernhauer Collection of rove beetles (Staphylinidae). Research Associate Alex K. Wyatt continued to identify and reorganize the North American butterflies and moths and to incorporate his own collection with that of the Museum.

The extremely large accessions of mollusks of the past two years have resulted in a tremendous backlog of cataloguing and labeling. Curator Haas has spent most of the year in this routine work, handling about 10,000 sets of shells (75,000 specimens), while Assistant Curator Solem prepared some 4,000 sets of shells for cataloguing.

Osteologist Sophie Andris has made good headway with providing cleaned skulls (1,100 mammal skulls) to meet the needs of the Division of Mammals and also prepared 43 skeletons, although there is a considerable number of skeletons yet to be cleaned for the Division of Vertebrate Anatomy. Assistant Phyllis Wade carried on much of the routine care of the collection in the Division of Vertebrate Anatomy and made illustrations for Curator Davis.



LABELED
INSECT SPECIMENS
FROM OUR
COLLECTIONS

PINNED INSECT
WITH 4 LABELS

Sito Taglawig,
Macao, Tagum, Davao
Prov., MINDANAO
Oct. 15, 1946

CNHM-Philippine
Zool Exped. (1946-47)
H.H. Hoogstraal leg.

original depon-
cap forest

at sea
level

LABELS
ACTUAL
SIZE



Exhibits—Zoology

The revision of exhibits of reptiles and amphibians that has been going on for several years in Albert W. Harris Hall (Hall 18, Reptiles, Amphibians, and Insects) was nearly completed. The work, most of which was devoted to reorganization and reinstallation of eight cases so that all the Chicagoland reptiles and amphibians are brought together, has been the responsibility of Artist Joseph B. Krstolich, aided by Assistant Taxidermist Peter Anderson. Taxidermist Carl W. Cotton prepared a model of a gavial for the crocodilian case and has prepared a model of the giant alligator snapping turtle to go into a final case with the giant Galapagos tortoise, and this will complete the revision of these exhibits.

The fine marine shells presented to the Museum by the estate of the late Dr. C. W. Yarrington (see pages 22 and 73) provided much excellent material for a special exhibit in Stanley Field Hall (see page 26). Assistant Curator Solem and Artist-Preparator Samuel H. Grove, Jr. (Botany), prepared a series of exhibits that featured shells as parts of the living animals. For this, Artist Krstolich made models of the soft parts of the animals, and these models were painted by Miss Marion Pahl, Staff Illustrator. This is perhaps the first shell exhibit in an American museum to emphasize the living animal rather than the shells only.

Taxidermist Cotton and Assistant Taxidermist Anderson mounted the birds and prepared some of the decorations for a Christmas tree for birds that was used during December by Raymond Foundation (see page 34).

With the great amount of zoological material on exhibition in fourteen halls occasional repairs and renovations are necessary to keep the exhibits in first-class condition. The repairs may be small in themselves, but access to the cases, removal of the material, work on the material, reinstallation of the material, and then closing the cases are time-consuming both for taxidermists and for maintenance and engineering crews. This year renovation of two fish habitat-groups and a number of specimens in the systematic series of fishes has been the major repairwork.

LIBRARY OF THE MUSEUM

PUBLIC RELATIONS

CO-OPERATION

SCIENTIFIC SOCIETIES

PHOTOGRAPHY AND
ILLUSTRATION

MOTION PICTURES

PUBLICATIONS AND
PRINTING

MAINTENANCE, CONSTRUCTION
AND ENGINEERING

LIBRARY OF THE MUSEUM

The function of a special library is to secure, assemble, and present information in a specific field. It provides a service that makes available to an organization whatever information it can gather for the use of that organization's activities. Chicago Natural History Museum Library specializes in four fields of science. Intense specialization in all fields of knowledge and the marked increase in research activity in the sciences are reflected in the growth of the Library's collections. The problem today of keeping abreast of scientific literature, even in a small field of interest, is staggering. Selection and rejection become even more important in endeavoring to secure for the Library the most useful publications in the Museum's fields of interest. In addition to the books and journals purchased and received as gifts and through exchange (for a representative list of accessions see page 125), a tremendous amount of material arrives unsolicited. It is necessary to interpret and correlate the papers selected from this influx for the use of the readers served by the Library.

The items received in the Library during the year totaled 12,434. This figure includes 1,114 book-order receipts, 102 gift items, journals received on subscription and exchange, government publications, and miscellaneous pieces of literature. Volumes accessioned numbered 1,579 and 59 volumes were withdrawn. The sum of \$1,131.00 received from the sale of duplicate or unwanted items has been added to the Library book-purchase fund.

The East Asian Library has acquired a number of volumes dealing with metal and stone inscriptions to aid in the cataloguing of the Museum's large collections of Chinese rubbings (see page 46). The reciprocal exchange of publications with institutions, societies, and organizations, both foreign and domestic, continued as a major function of the Library (see page 99). New exchanges were established and, wherever necessary, older exchanges were revised. As in the past the Library's collections have been enriched by many important gifts. Grateful acknowledgment is made to the donors for their thoughtful contributions (donors are listed on page 125).

The map collection of the Library has grown tremendously over the years, principally because of the Army Map Service Map Depository Program. Many of the large maps were inaccessible to our scientific staff until suitable steel map-cases were installed during the year in the north end of the main reading room. In order that the maps may be readily available they have been temporarily arranged alphabetically under name of country.

The reference division was called upon to give service on a wide range of subjects at various levels of knowledge. Many inquiries are received by telephone and through the mail, and inquiries highly specialized in nature are turned over to the scientific staff. The card catalogue facilitates the work of the reference assistant and it also aids the researcher in his quest for information. Books circulated to readers using the main reading room totaled 2,410.

As has been customary, a great amount of material was lent to other libraries, organizations, and institutions, and many volumes were borrowed from co-operating libraries. If it is found that items, especially borrowed out-of-print material, would be useful in our permanent collection, microfilms are made. The number of volumes handled through interlibrary-loan service totaled 239.

The binding program has kept pace with the influx of books and periodicals, and in addition many volumes from the collections were rebound or repaired. The total number of volumes sent to the bindery during the year amounts to 1,000. The volumes labeled and repaired in the Museum Library number 6,211.

The 13,886 catalogue cards that were prepared, typed, and filed in the general, departmental, and divisional catalogues of the Library represent entries for new items, both books and runs of serial publications, and reclassified entries. Analytics (2,029) and appropriate card entries were made to index articles in journals and periodicals. The total number of new volumes added to the collection is 1,037, and 1,736 volumes were reclassified. Cataloguing the collection of books in oriental languages housed in the East Asian Library was continued by Dr. Hoshien Tchen, Consultant, East Asian Collection, who during the year catalogued approximately 140 titles consisting of more than 500 volumes.

As the number of journals and other serials now classified under the Library of Congress system in this Library has increased, 118 standing orders for complete analytics for monographs in these series have been placed with the Library of Congress Card Division, thus decreasing the original cataloguing to be done. Unfortunately the Library of Congress does not analyze the majority of foreign serials received by the Museum Library, and analytics for these, if required, must be composed by our cataloguer.

Although there remains a substantial backlog of uncatalogued material in both book and serial form because of a temporary shortage in personnel, temporary entries are filed in the general catalogue for books shortly after their receipt. These slips, stamped "not available until catalogued," serve the double purpose of providing a check to prevent accidental duplication of orders and of announcing



THE RARE BOOK ROOM
MUSEUM LIBRARY

to users of the catalogue the arrival of the volumes in the Library. For serial publications the Kardex entry made at the time of receipt provides this check until the item is catalogued. The authorities file for authors' names has increased by the addition of 3,662 names. A beginning has been made on a similar file for corporate entries.

The Library is frequently called upon to translate into English correspondence and miscellaneous pieces of literature. During the year 149 such translations were made.

The steady growth of the Library's collections has exerted an inexorable pressure on the fixed capacity of stack space. Screening collections to dispose of what can have little or no permanent value has eliminated many items. Since substantially all the Library's space is in use, satisfying the need for additional space usually entails shifting study or laboratory areas of the scientific departments. The pressing need for additional stack space in the library of the Department of Anthropology had been a matter of concern for some time. This year a section of the room across the corridor from the anthropology library was cleared and new stacks installed. Approximately 25,000 volumes were transferred and rearranged, and all the volumes were thoroughly vacuum cleaned. The entire transfer, a major undertaking, was begun and completed during August by George Stosius, of the Library staff, and Chih-wei Pan, a temporary assistant who was employed for this purpose.

Another urgent project undertaken and completed during the year was reorganization and renovation of the Rare Book Room. Besides valuable books, drawings, paintings, and documents, many volumes are housed in this room because they deserve better protection than can be given in the general stack areas. An orderly and functional room was created by rearranging the cases housing the valuable collections, constructing additional shelves, and improving the lighting.

Care of the collections includes, of course, the arduous tasks of relieving crowding of the books and of keeping them clean. In order that the varied and valuable collections may be cared for properly, members of the Library staff set aside some time for basic house-keeping. Major transfers sometimes require outside help. With co-operation of Dr. Kenneth Starr, Curator of Asiatic Archaeology and Ethnology, and the assistance of Miss Marimari Kellum, Antioch College student (see page 52), the collection of books and maps in the oriental languages on the shelves in the general library were transferred to the East Asian Library. Miss M. Susan Buehner and Miss Susan Davis, Antioch College students, ably assisted with the large-scale clerical activities in the Library.

ACTIVITIES OF STAFF MEMBERS IN SCIENTIFIC SOCIETIES

George I. Quimby, Curator of North American Archaeology and Ethnology, who was retiring president of the Society for American Archaeology, and Dr. Donald Collier, Curator of South American Archaeology and Ethnology, attended the joint annual meetings in Norman, Oklahoma, of the Society for American Archaeology and the Central States Branch of the American Anthropological Association. Curator Quimby made the presentation speech for the Viking Fund Archaeology Medalist at a dinner given in New York by the Wenner-Gren Foundation for Anthropological Research. Curator Collier represented the Museum and the American Anthropological Association as official delegate at the Thirty-third International Congress of Americanists in San José, Costa Rica.

Dr. Paul S. Martin, Chief Curator of Anthropology, attended a conference (Wenner-Gren Foundation) at Indiana University on the place of museums in higher education. With Dr. John B. Rinaldo, Assistant Curator of Archaeology, he attended a conference on ceramics at the Museum of Northern Arizona, and Dr. Rinaldo attended the Pecos conference on Southwestern archaeology at the University of New Mexico. Dr. Martin, Dr. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, and Phillip H. Lewis, Assistant Curator of Primitive Art, attended the fifty-seventh annual meeting in Washington, D.C., of the American Anthropological Association, at which Assistant Curator Lewis presented a paper. Curator Force became a Fellow of the American Anthropological Association, the fifth member of our Department of Anthropology to be so honored. Assistant Curator Lewis was elected a Fellow of the Royal Anthropological Institute of Great Britain and Ireland. Allen S. Liss, Custodian of Collections, attended the Midwest Archaeological Conference in Springfield, Illinois, and the meetings in both Springfield and Urbana of the Illinois Archaeological Survey (he was elected a member of the board of directors).

Dr. Theodor Just, Chief Curator of Botany, attended a conference in New York sponsored by the New York Academy of Sciences, where he participated in a symposium on germfree vertebrates. He also attended the annual meeting of the American Institute of Biological Sciences in Bloomington, Indiana. As an active participant in the symposium on Fifty Years of American Paleontology held during the Jubilee Meeting in St. Louis of the Paleontological Society he spoke on "Progress in Paleobotany, 1908-1958." He attended the Conference of Biological Editors in

Washington, D.C., for which he continued as chairman of the committee for editorial policy. He also continued as a member of the International Committee on Paleobotanical Nomenclature and as a member of the program committee for paleobotany for the Ninth International Botanical Congress to be held in Montreal in 1959. He prepared the "Bibliography of American Paleobotany, 1952-1957" on behalf of the Paleobotanical Section of the Botanical Society of America.

Dr. Rainer Zangerl, Curator of Fossil Reptiles, Dr. Robert H. Denison, Curator of Fossil Fishes, and David Techter, Assistant in Fossil Vertebrates, attended a joint meeting in Ann Arbor, Michigan, of the Society of Vertebrate Paleontology and the Society for the Study of Evolution, where Curator Zangerl took part in a symposium on problems in vertebrate morphology and Curator Denison read a paper on the relationships of acanthodian and placoderm fishes. Both men also took part in the combined meetings in Washington, D.C., of the American Society of Zoologists and the American Society for the Advancement of Science. Curator Zangerl attended the annual meeting in St. Louis of the board of directors of the American Geological Institute, to which he had been appointed by the Society of Vertebrate Paleontology. William D. Turnbull, Assistant Curator of Fossil Mammals, attended in western Montana the Eighth Field Conference of the Society of Vertebrate Paleontology. Bertram G. Woodland, Associate Curator of Petrology, attended the annual meeting in St. Louis of the Geological Society of America.

Dr. Austin L. Rand, Chief Curator of Zoology, and Melvin A. Traylor, Jr., Assistant Curator of Birds, attended the meetings in New York of the American Ornithologists' Union, of which Emmet R. Blake, Curator of Birds, was appointed to the Committee on Classification and Nomenclature. Dr. Robert F. Inger, Curator of Amphibians and Reptiles, and Assistant Hymen Marx attended the annual meetings in Bloomington of the American Society of Ichthyologists and Herpetologists, where Assistant Marx read a paper. Loren P. Woods, Curator of Fishes, attended the meetings of the Illinois Academy of Science at Urbana and judged the junior science exhibits. Dr. Edward M. Nelson, Associate in the Division of Fishes, presented papers at the American Institute of Biological Sciences in Bloomington and at the American Association for the Advancement of Science (Society of Morphology) in Washington, D.C. Rupert L. Wenzel, Curator of Insects, attended the meetings in Salt Lake City of the Entomological Society of America. Associate Curator Henry S. Dybas attended the meetings in St. Louis

of the North Central States Branch of the Entomological Society of America. Miss Lillian A. Ross, Associate in the Division of Insects and Associate Editor of Scientific Publications, attended the meetings of the American Institute of Biological Sciences in Bloomington and represented the Museum at the Conference of Biological Editors in Washington, D.C. Dr. Fritz Haas, Curator of Lower Invertebrates, and Dr. Alan Solem, Assistant Curator, attended the annual meeting of the American Malacological Union in Ann Arbor.

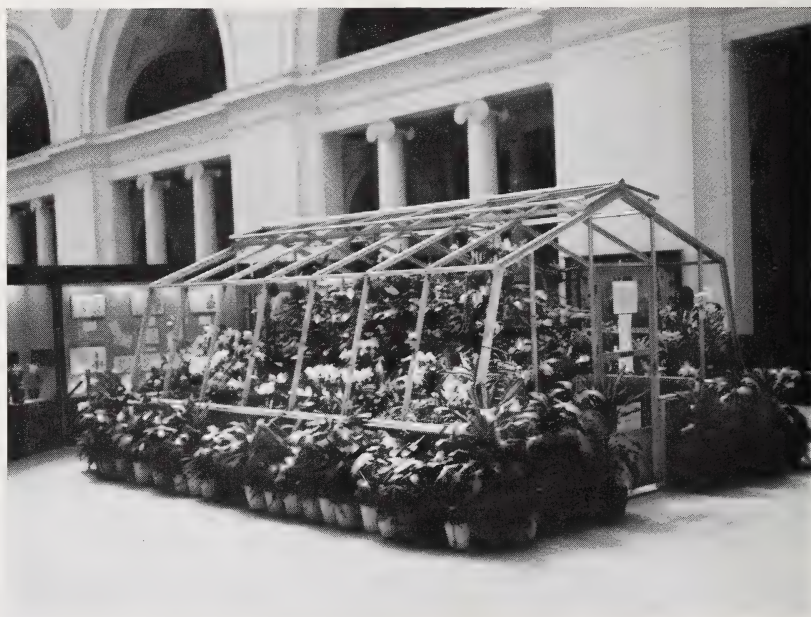
Philip Hershkovitz, Curator of Mammals, attended the Fifteenth International Zoological Congress in London (see page 68), where he participated in drafting the new International Code of Zoological Nomenclature, and was a speaker and panelist at the symposium on systematic zoology held in Washington, D.C., by the Society of Systematic Zoology. He also attended the annual meetings in Tucson, Arizona, of the American Society of Mammalogists, as did Miss Sophie Andris, Osteologist, and D. Dwight Davis, Curator of Vertebrate Anatomy, who continued to serve as a trustee of the society. Curator Davis presented two papers ("The Proper Goal of Comparative Anatomy" and "A Naturalist in the Tropics Today") at the Centenary Science Congress held at the University of Malaya, Singapore, in December to commemorate the work of Charles Darwin and Alfred Russel Wallace (he received a travel grant for this trip from the National Science Foundation).

John R. Millar, Deputy Director of the Museum, attended two conferences of administrative officers of research museums of natural history, one held at the Philadelphia Academy of Sciences in May and the other at New York State Museum, Albany, in October (both meetings were supported by grants from the National Science Foundation). Miss Miriam Wood, Chief of James Nelson and Anna Louise Raymond Foundation, attended the annual meeting in Kansas City of the Midwest Conference of Museums of the American Association of Museums. Meetings of the American Library Association and of Special Libraries Association were attended by Mrs. Meta P. Howell, Librarian, and Mrs. M. Eileen Rocourt, Associate Librarian. Mrs. Rocourt was program chairman of the Museum Division of Special Libraries Association during its annual convention held in Chicago in June, when she was elected vice-chairman of the Museum Division. Members of the Museum Division and the Geography and Map Division of the convention visited our Museum Library, where they were welcomed by the Director of the Museum, Dr. Clifford C. Gregg, who talked to them on "Collectors' Items," after which they were conducted on a general tour of Museum exhibits by Miss Wood, Chief of Raymond Foundation.

Curator Collier was appointed review editor of *American Antiquity*, Curator Inger was appointed associate editor of *Evolution*, Curator Woods was elected to the editorial board of *Copeia*, and Mrs. Rocourt, Associate Librarian, was elected editor of *Bulletin* of the Museum⁶ Division of Special Libraries Association. Members of our Museum's scientific staff who continued to serve in various capacities on editorial boards of scientific journals include Curator Davis, *Copeia*; Chief Curator Just, *Lloydia* (editor); Associate Nelson (Division of Fishes), *Copeia*; Curator John W. Thieret (Division of Economic Botany), *Economic Botany*; Assistant Curator Turnbull, *Säugetierkundliche Mitteilungen* (Stuttgart, Germany) and *Society of Vertebrate Paleontology News Bulletin*; and Curator Woods, *The American Midland Naturalist*.

A number of members of the Museum's scientific staff contribute reviews and articles to various learned journals or write books on subjects within the Museum's fields of interest and research. A bibliography of some of this material in 1958 is on page 106.

Orchid display in Stanley Field Hall
sponsored by the Illinois Orchid Society
(see pages 26 and 56)



CO-OPERATION WITH OTHER INSTITUTIONS

In accordance with its custom, the Museum seized many opportunities to work with other institutions and with scholars from other institutions in pursuit of our mutual objectives.

The Museum continued its close co-operation with the Philippine Studies Program at the University of Chicago (see Annual Report 1956, page 74). Evett D. Hester, who now is devoting his full time to duties as Associate Director of the Philippine Studies Program, was succeeded during the year as Thomas J. Dee Fellow in Anthropology at the Museum by Alfredo Evangelista of the Philippine National Museum in Manila (see pages 38 and 116). The exhibition of Chinese rubbings arranged under the sponsorship of the Renaissance Society in its galleries at the University of Chicago by Dr. Kenneth Starr, Curator of Asiatic Archaeology and Ethnology, was the occasion of two talks by him on the subject of rubbings, one to members of the Renaissance Society and the other to guests of the Midwest Chinese Student and Alumni Services. Through the co-operation of Dr. Hoshien Tchen, Consultant, East Asian Collection, and Curator Starr the Museum participated in a census of library holdings in Asiatic languages in the United States, a survey that was sponsored by the American Library Association.

On the evening of April 8 the Society for Contemporary American Art held a special dinner in the Museum (see page 109) and a program that included a talk on primitive art by Phillip H. Lewis, Assistant Curator of Primitive Art, and guided tours of selected art exhibits in the Museum by Dr. Donald Collier, Curator of South American Archaeology and Ethnology, George I. Quimby, Curator of North American Archaeology and Ethnology, Curator Starr, and Assistant Curator Lewis. During the summer Dr. Douglas Newton and Myron O'Higgins, both of the new Museum of Primitive Art in New York, visited this Museum to select photographs from our many albums for the collection that Mr. O'Higgins, who is the photograph archivist, is making for the Museum of Primitive Art. Miss Grace Ramke, faculty member at Louisiana State University, is working under a grant from the Ford Foundation to delineate the aesthetic principles of African art, a project that is being carried on at Northwestern University and this Museum.

Conferences on the "Transition from Food Collecting to Food Producing in the Old and New Worlds" were held at the Museum in the fall in co-operation with the University of Chicago, Northwestern University, Illinois State Museum, Southern Illinois University, and the Wenner-Gren Foundation for Anthropological

Research. Curator Quimby taught a course at the University of Chicago on prehistory and paleography of the Upper Great Lakes region and gave a series of lectures at the Central YMCA on Chicago (11,000 B.C.). Curator Collier taught a course at the University of Chicago on the rise of civilization, Assistant Curator Lewis lectured on primitive art at the Institute of Design of Illinois Institute of Technology, and Dr. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, spoke at a meeting of the Anthropology Club of the University of Illinois. Classes in anthropology from Wright Junior College (Chicago) visited the Museum.

Dr. Theodor Just, Chief Curator of Botany, conducted a seminar-lecture for the Department of Biology of Saint Louis University and was asked to serve as consultant in preparation of the "Catalogue of Fossil Spores and Pollen" that is being published in several volumes by Pennsylvania State University. He was installing officer of the Sigma Xi Club at Northern Illinois University, giving the major address, and talked about the Stanley Field Collection of Plant Models (see page 23) on a television program on April 9 (WMAQ-NBC). J. Francis Macbride, Curator of Peruvian Botany, was made an Honorary Professor of the University of San Marcos during the recent South American Botanical Congress in Lima, Peru. Samuel H. Grove, Jr., Artist-Preparator, was appointed by the De Kalb (Illinois) Agricultural Association to design and install their corn exhibit for the Tenth International Congress of Genetics held in August in Montreal. A class in botany ("The Plant Kingdom") conducted at the University of Chicago by Dr. Barbara F. Palser and Dr. Paul Voth spent an afternoon in Martin A. and Carrie Ryerson Hall (Hall 29, Plant Life) and in the herbaria. Other university classes visiting the Museum and continuing to use the herbaria and the botany library came from De Paul University, Michigan State University, and Valparaiso University.

During the year the Museum entered into an exchange of geological specimens with Museo Civico of Milan, Italy, which suffered severely during World War II and is now engaged in rebuilding its exhibit and study collections. The graduate course in vertebrate paleontology of the University of Chicago was conducted, as in past years, by Dr. Everett C. Olson, Professor of Vertebrate Paleontology at the university and Research Associate on the Museum's staff. Dr. Robert H. Denison, Curator of Fossil Fishes, lectured at the University of Chicago before a seminar on evolution and at the University of Illinois College of Pharmacy before a seminar on paleoecology, and William D. Turnbull, Assistant Curator of Fossil Mammals, talked before graduate students and staff members of

the University of Illinois. Albert W. Forslev, Associate Curator of Mineralogy, presented a paper on X-ray diffraction and spectrographic techniques in forensic problems at the homicide workshop held in the Museum by the Society of Forensic Pathologists and was a judge of mineral exhibits at the Phoenix (Arizona) Gem and Mineral Show sponsored by the Rocky Mountain Federation of Mineral Societies and at the Midwest Gem and Mineral Show sponsored by the Midwest Federation of Mineral Societies held in Downers Grove (Illinois). A class in mineralogy from the University of Illinois (Chicago undergraduate division) spent an afternoon in the William J. and Joan A. Chalmers Mineralogical Laboratory, where they were given a demonstration of X-ray diffraction procedures in mineralogical analysis by Associate Curator Forslev. On two occasions, when classes in zoology from Indiana University and a class in geology from the University of Wisconsin visited the Museum, Dr. Rainer Zangerl, Curator of Fossil Reptiles, lectured on paleontology.

Philip Hershkovitz, Curator of Mammals, gave a lecture on the classification of New World primates to graduate students in physical anthropology at the University of Chicago. Dr. Robert F. Inger, Curator of Amphibians and Reptiles, who has been appointed to the Committee on Paleozoology at the University of Chicago, lectured for the Zoology Club of the University of Chicago and for the Department of Zoology of the University of Texas. Rupert L. Wenzel, Curator of Insects, held seminars for the Department of Anatomy of the University of Illinois and the Department of Biology of Northwestern University. Henry S. Dybas, Associate Curator of Insects, lectured for the Department of Entomology of the University of Illinois, the Conservation Council, the Chicago Entomological Society, and the Biology Club of Thornton (Illinois) Fractional High School and attended meetings in Washington, D.C., of the American Mosquito Control Association. D. Dwight Davis, Curator of Vertebrate Anatomy, who has been appointed to the Scientific Advisory Committee of the Chicago Zoological Society, lectured at the University of Chicago before a class in physical anthropology and conducted a seminar at the University of Illinois College of Medicine on the masticatory apparatus in mammals.

A combined group that included the advanced entomology class of the University of Illinois, the field biology class of Northwestern University, the field zoology class of Roosevelt University, and the Chicago Entomological Society spent a day in the Division of Insects. Following a talk by Curator Wenzel on Museum collections and research, the group was taken on guided tours. Other classes that spent a day in the Division of Insects under the guidance of

members of the staff were from Purdue University (graduate students in systematics) and the University of Illinois College of Pharmacy. High-school science teachers' summer institute of Marquette University sent a class for a lecture by Curator Inger and a tour of the Division of Amphibians and Reptiles. Dr. Albert Wolfson brought a class from Northwestern University for a lecture and tour of the Division of Birds. Biology classes from the University of Wisconsin and the University of Illinois (Urbana) visited the Division of Fishes. A class in physical anthropology from the University of Chicago was given an afternoon's tour of the Department of Zoology by Curator Davis.

Among other universities and colleges that continued their use of the Museum were George Williams College, Illinois Institute of Technology, Loyola University, McMaster University (Canada), Morton Junior College, North Park College, and Wheaton College. Supervised classes of art students continued to use the Museum exhibits as a part of their classroom work in sketching, painting, and modeling, and results of this were placed on special exhibition in Stanley Field Hall in the spring (see page 26). The Chicago Science Fair (sponsored by Chicago Teachers Science Association), a show in which students of grades six through twelve from all schools within a 35-mile radius of Chicago are eligible, was held at the Museum on Saturday, May 17.

This Museum is one of a number of institutions selected by Medill School of Journalism of Northwestern University to give its students actual experience as working newspaper men and women. Students are sent each week on assignments to gather news material that they use to prepare stories as "lab work" in their classes. Co-operation and the benefit of experience are extended to them by H. B. Harte, Public Relations Counsel, and Miss Patricia McAfee, Assistant. Under the co-operative plan adopted in 1946 by this Museum and Antioch College (Yellow Springs, Ohio) sixteen young men and women were employed in 1958 by the Museum in its scientific departments, Library, and Raymond Foundation.

Among visitors in the Department of Anthropology during the year were Dr. Daniel F. Rubin de la Barbolla, Mexico City; Dr. Chêng Tê-k'un and Dr. Joan E. van Lohuizen-de Leeuw, Cambridge University; Dr. Chou Wên-chung (Guggenheim Fellow), Rye, New York, Dr. Fay-Cooper Cole, Santa Barbara, California; Dr. E. B. Danson and Dr. Harold Colton, Museum of Northern Arizona; Dr. Raymond Dart, University of the Witwatersrand (South Africa); Dr. Kristjan Eldjarn, National Museum of Iceland; Dr. Chang Kwang-chih and Dr. Eliot Elisofon, Peabody Museum; William



ASSOCIATE CURATOR DYBAS WORKING WITH
MODIFIED BERLESE FUNNELS USED FOR
EXTRACTING MINUTE INSECTS FROM LEAF LITTER

Fagg, British Museum (London); Dr. Gutorm Gjessing, Universitetets Etnografiske Museum (Oslo); Roger Grange, Nebraska State Historical Society; Maxwell Hahn, Field Foundation, New York; the Reverend L. W. Henderson, Lobito, Angola; Dr. Donald Herold, Davenport Public Museum; Dr. Douglas Newton and Myron O'Higgins, Museum of Primitive Art; Dr. Paul L. Hubbs and Dr. Richard Rudolph, University of California; Miss Mary Elizabeth King, Textile Museum (Washington, D.C.); Professor Kuan Kung-tu, T'aiwan Normal School (China); Colonel Dammon Lebehabeul (Director of Operations of Royal Thai Army), Bangkok; Dr. Li Chu-ting, State University of Iowa; Miss Alice Marriot, Stovall Museum of Science; Dr. Edgar Negret, Columbia University; Dr. José G. Niset, Coqville, Belgium Congo; Mrs. Webster Plass, Philadelphia; Dr. Alfred Salmony, New York; Dr. Douglas W. Schwartz, University of Kentucky; Dr. Verena Turdel, Swiss National Museum (Zurich); Dr. B. Wennberg, National Museum (Stockholm); Mrs. Elizabeth Bayley Willis, University of Washington (Seattle); and Professor Yang Liang-kung, T'aiwan, China.

Visiting botanists included Paul Allen, Kirkwood, Missouri; Dennis Anderson and Dr. Richard W. Pohl, Iowa State College; Dr. Howard Arnott, Carl Keeler, and Dr. Albert Wolfson, Northwestern University; Dr. Fred Barkley, Morristown, New Jersey; R. A. Baugh, Monee, Illinois; Dr. Alan Beetle, University of Wyoming; Professor W. H. Bucher, Columbia University; John Clay and Dr. and Mrs. Harold St. John, Hawaii University; Sister M. Clement, O.P., Saint Louis University; Professor Robert Cosby, Dr. Lawrence Kaplan, and John Metcalfe, Roosevelt University; Dr. Arthur Cronquist, New York Botanical Garden; Dr. V. R. Dnyansagar, Dr. N. Hickey, and Dr. Jonathan Sauer, University of Wisconsin; Dr. Wilbur H. Duncan, University of Georgia; Dr. O. J. Eigsti and Miss Etsu Isi, Chicago Teachers College; Dr. Alfred Emerson, Dr. Barbara F. Palser, Dr. Robert Schaeffer, and Dr. Paul Voth, University of Chicago; Dr. Alvaro Fernandez, Bogotá, Colombia; Dr. Magnus Fries, Uppsala, Sweden; Dr. George W. Gillett and Philip Halecki, Michigan State University; Dr. W. Greulach, University of North Carolina; Dr. Mason Hale and Dr. Velva E. Rudd, United States National Museum; Professor J. C. Hawkes, University of Birmingham (England); Mrs. Leslie Higgs, Nassau; Dr. J. W. Hudson and Miss Priscilla Perry, Loyola University; Mr. and Mrs. G. A. Huggins, Baltimore; Dr. John Ingram, Bailey Hortorium; Dr. Robert M. Johns, Dr. Kenneth L. Jones, and David Lellinger, University of Michigan; Loring Jones and Leo Olson, De Kalb Agricultural Association; Mrs. Mildred Mathias,

University of California; Mrs. M. C. Morris, Hiram, Ohio; Dr. G. R. Northup, St. Louis; Professor James R. Rees, Anderson College; Robert Reich, De Paul University; Werner Reisseck, Ft. Wayne, Indiana; Dr. Claude M. Rogers, Wayne State University; J. M. Rominger and Kenneth Rus, University of Illinois (Urbana); Dr. Richard Evans Schultes, Charles Schweinfurth, and Mrs. Claude Webber, Harvard University; Dr. Richard A. Scott, Denver; the Reverend Urban J. Siegrist, Saint Joseph College; Dr. Rolf Singer, Fundacion Miguel Lillo (Tucuman, Argentina); Tom Soderstrom, Yale University; David Teshler (Consulate General of Israel), Chicago; Dr. Alfred Traverse, Houston; Dr. Rolla Tryon, Gray Herbarium; Dr. Néstor Uscátegui, Bogotá, Colombia; Robert VanTress, Garfield Park Conservatory, Chicago; Jean-Pierre Wacquent, Université de Paris a la Sorbonne; Eric Wählich, Bremen, Germany; Eric Walther, California Academy of Sciences; Mrs. I. B. Wasson, Morton Arboretum; Dr. R. L. Wilbur, Duke University; and Archie F. Wilson, Summit, New Jersey.

Visiting geologists included Dr. Robert S. Bader, John S. Hall, and Dr. Joe A. Tihen, University of Illinois (Urbana); Dr. Noemi Cattoi, Buenos Aires, Argentina; Dr. Basil Cooke, University of the Witwatersrand (South Africa); Marvin Cooper and Dr. Max K. Hecht, Queens College; Dr. Edwin C. Galbreath, Southern Illinois University; Donald G. Herold, Davenport Public Museum; Dr. Nikolas Hotton III, University of Kansas; Dr. Ernest Lundelius, Jr., University of Texas; Dr. Juan José Parodiz, Carnegie Museum; Dr. James H. Quinn, University of Arkansas; Dr. Charles A. Reed, University of Illinois College of Pharmacy; Dr. Bobb Schaeffer and Walter Sorensen, American Museum of Natural History; Dr. Bertram Schultz, University of Nebraska State Museum; Morris F. Skinner and Beryl E. Taylor, Frick Laboratory (American Museum of Natural History); Dr. Robert E. Sloan, University of Minnesota; Dr. Peter P. Vaughn, United States National Museum; and Dr. Gerd Westermann, McMaster University (Canada).

Visiting zoologists included Burton Adlerblum, Sheldon Applegate, Harold Kerster, John Pierce, and Stephen Weinstein, University of Chicago; Dr. Richard D. Alexander, James Organ, C. Lavett Smith, Jr., and Thomas Uzzell, University of Michigan; Dr. R. W. Alrutz, Denison University; William W. Anderson, Frederick H. Berry, and Dr. David C. Caldwell, United States Fish and Wildlife Service, Brunswick, Georgia; Dr. Alfred M. Bailey (Director), Denver Museum of Natural History; Dr. Edward C. Becker, Dr. A. Chant, and Dr. J. Chilcott, Canada Department of Agriculture (Ontario); Dr. William J. Beecher (Director), Dr. Joseph Camin, and Dr.

Paul Ehrlich, Chicago Academy of Sciences; H. M. Bower, Wausau, Wisconsin; Miss Margaret G. Bradbury, Hopkins Marine Station; Dr. Pierce Brodkorb and Dr. Rodger Mitchell, University of Florida; Carlos Bumzahem (College of Medicine) and Dr. E. Lloyd DuBrul (College of Dentistry), University of Illinois; Frank Cassel, North Dakota State Agriculture College; Dr. L. Chandler and Dr. Ray Everly, Prudue University; Dr. William Clay, University of Louisville; Dr. Rezneat Darnell and C. F. Dineen, Marquette University; D. Davis and Barry Valentine, Cornell University; Professor A. DeBont, Université Lovanium (Belgian Congo); Mrs. Myvanwy Dick, Museum of Comparative Zoology; Dr. Gerhard Dieke, Johns Hopkins University; Dr. Herndon Dowling, University of Arkansas; Dr. William Duellman, Wayne State University; Dr. Nobuo Egami, Tokyo University (Japan); G. E. Eriksen and Stanley Rand, Harvard University; Dr. Alvaro Fernandez, Instituto de Ciencias Naturales (Colombia); William Fitzwater, Indiana Fish and Wildlife Service; M. J. Fouquette, University of Texas; Consul George Frey, G. Frey Museum (Germany); Dr. Carl Gans, University of Buffalo; Dr. and Mrs. Richard Graber and Dr. Harlow B. Mills, Illinois State Natural History Survey; Professor Melville Hatch, University of Washington (Seattle); Dr. Max Hecht, Queens College; Dr. Earl S. Herald, Steinhart Aquarium; Dr. David Kistner, University of Rochester; Dr. Karl Koopman, Academy of Natural Sciences; Dr. Maxime LaMotte, Ecole Normale Supérieure (Paris); Stuart Landry, University of Missouri; Dr. Alan Leviton, California Academy of Sciences; Dr. Robert Metz, Northwestern University Medical School; Bryant Mather, Jackson, Mississippi; Randolph L. Peterson, Royal Ontario Museum (Toronto); William H. Phelps, Caracas, Venezuela; Dr. Cornelius B. Philip, Hamilton, Montana; Karl Plath and Dr. George Rabb, Chicago Zoological Society; Dr. W. J. Price, University of Notre Dame; Dr. Gerbert Rebell, New Brunswick, New Jersey; Dr. Charles A. Reed, University of Illinois College of Pharmacy; Professor and Mrs. L. R. Richardson, Victoria University College (New Zealand); Dr. J. T. Salmon, University of Wellington (New Zealand); Ram Singh, British Guiana Museum and Zoo (Georgetown); Dr. Royal D. Suttkus, Tulane University of Louisiana; Dr. Tohru Uchida, Sapporo, Japan; Jared Verner, Louisiana State University; Dr. George Wallace, Michigan State University; Harlen Walley, Sandwich, Illinois; Miss Joan Walters, Morton Grove, Illinois; Dr. Albert Wolfson, Northwestern University; and Dr. R. Woodruff, Gainesville, Florida.

In addition, there were, of course, many visitors to all scientific departments from the Chicago area.

PUBLIC RELATIONS

Because of their great appeal to the imagination of the public and the striking impression they make in pictorial presentations, dinosaurs were again the focus of much of the Museum's publicity. The completion of the huge *Brontosaurus* skeleton (see page 21) resulted in publicity comparable to that which greeted the *Gorgosaurus-Lambeosaurus* exhibit at the time of its installation in Stanley Field Hall (see Annual Report 1956, page 24). In fact, the *Chicago Sun-Times* revived interest in the older group with a half-page color picture. Other Museum events that received major coverage were the fiftieth anniversary of President Stanley Field as presiding officer of the Board of Trustees (see page 23) and the acquisition of the famed Fuller Collection (see page 21).

More than 230 news releases were circulated by the Division of Public Relations during the year. The Museum's monthly *Bulletin*, in addition to its primary function as a liaison between the Museum and its membership, serves also as a supplementary release of Museum information, and many of its articles and pictures are reprinted in newspapers and magazines and mentioned in broadcasts. An outstanding example was a page of pictures of the Stone Age dioramas in Hall C published in the *Chicago Daily News*. Several feature stories and a layout of photographs in the *Chicago Tribune* related to the constant flow of gifts of material from all over the world for the collections of the scientific departments.

Radio and television stations and networks as well as the press showed gratifying interest in the Museum and its activities and have been highly co-operative in their reception of news material distributed by the Museum, frequently following up Museum releases or originating their own stories based on material in the exhibits or study collections. The *Chicago American* has been especially responsive in picture-coverage of Museum events. The inauguration by the *Chicago Daily News* in October of a new rotogravure magazine called *Weekend* has provided an especially welcome and effective vehicle for announcements of current events, special events, lectures, and programs for children. The editors of this magazine have been most co-operative, and the Museum had material published in it almost every week.

With the constant publishing and broadcasting of Museum news and the reiteration of the Museum's name in this connection, it is believed that no Chicagoan can remain unaware of the institution's existence and its program for education and public service. Most of the major publicity stories are also carried nationally (and even

internationally) by the wire services of the Associated Press and United Press-International, thus reaching vast numbers of persons who at one time or another may come to Chicago and, while here, to the Museum.

In radio and television the Museum acknowledges the co-operation of the networks (American Broadcasting Company, Columbia Broadcasting System, and National Broadcasting Company) and more than sixty independent local stations, large and small, throughout the Chicago area. Especially effective because of their appeal to that segment of the public most interested in cultural and educational fields have been the almost daily announcements of Museum activities on the program "Tomorrow" of the noncommercial television station WTTW (Channel 11) and on radio station WFMT, which, in addition, gives much space to the Museum in its monthly *Fine Arts Guide*.

The Museum benefits also from the courtesies of other kinds of organizations. In particular, placards advertising the Edward E. Ayer Foundation lectures for adults and the Raymond Foundation programs for children were displayed without charge, as for many years past, in stations of the Chicago and North Western Railway, the Chicago Transit Authority, and the Illinois Central System. There are also listings of Museum events throughout each year in *Headline Events in Chicago*, published monthly by the Chicago Association of Commerce and Industry, and *Chicago Exhibitions Calendar*, published quarterly by the Adult Education Council.

MOTION PICTURES

Cataloguing and accessioning all film subjects as well as labeling and relabeling all film storage-cans in the vault room were brought up to date. Many films were screened in order to study subjects and techniques that might be incorporated into our own productions. In March, John Moyer, Chief of the Division of Motion Pictures, attended the Twelfth Annual Workshop conducted by the Calvin Company of Kansas City, where techniques in production of educational motion-pictures were studied and the results screened. This workshop gives to motion-picture producers and other interested persons the opportunity to see and study the latest in educational teaching-film. "Yellowstone," a film made by John Moyer, was chosen by the educational division of the State Department as one of a small group of outstanding travel pictures to represent the United States in showings at the international world's fair in Brussels.

SEPIK RIVER
NEW GUINEA

CEREMONIAL
PLAQUE



FROM THE
SPECIAL EXHIBIT
IN
STANLEY FIELD HALL

"WHAT IS PRIMITIVE ART?"

During the year the Museum's film production "Through These Doors" was constantly on loan to various organizations and schools as an educational service of the Museum. Because this film was produced in 1950 and many of the scenes are now out-dated, an entirely new film will be produced to take its place. Work on the new film is now in progress, and it should be ready for public showing and use during the coming year.

Inspection, cleaning, and repair of films was carried on. Such work is necessary to keep in perfect condition the Museum's Film Library, which now numbers 101 complete productions and thousands of feet of additional film on miscellaneous subjects. New and replacement titles and sections of films damaged from constant use were photographed and edited into their respective productions. Films were sent out on loan to other institutions that requested them for use as teaching aids in classroom study.

PHOTOGRAPHY AND ILLUSTRATION

It has always been a matter of deep satisfaction that we do not need to go beyond our own staff to get photographic material for our publications and exhibits. The Division of Photography prepared about 1,500 negatives during the year and nearly 21,000 contact prints. Enlargements, lantern slides, and kodachromes account for an additional 2,300-odd items. A quantity of this material is sold to the public for many purposes, much of it being used to illustrate encyclopaedias, textbooks, and feature articles in magazines. During the year distribution of color transparencies of our exhibits was begun through the General Biological Supply House, a large organization that supplies schools and colleges throughout the world with materials for biological education. The co-operative endeavor extends to students anywhere the use of our Museum exhibits. A significant enlargement of the Museum's usefulness in science education is anticipated through this medium.

It is convenient, saves time, and makes for both efficiency and economy in the operation of the Museum to have available for consultation our own artists, who have been trained in museum techniques and are aware of our publication and exhibition problems. The Division of Illustration produced during the year more than 170 drawings for publication (among them two double-page layouts and a cover for Chicago Natural History Museum *Bulletin* and illustrations of animal material ranging from seashells and lizards to birds and mammals) and accomplished a great many miscel-

laneous assignments (including slides for presentation on television, layouts for exhibits, paintings for exhibition, posters, maps, charts, and retouched negatives). E. John Pfiffner, Staff Artist, completed a painting of *Gunnera magnifica*, a most unusual tropical plant, for the series of murals (see page 56) in Martin A. and Carrie Ryerson Hall (Hall 29, Plant Life). Miss Marion Pahl, Staff Illustrator, spent a great amount of time in preparing drawings of histerid beetles to illustrate a Museum publication, painstaking work that entails constant use of the microscope and calls for extreme care and infinite patience as well as the ability to turn out precise and accurate material as an aid to scientific study.

PUBLICATIONS AND PRINTING

For the third successive year a new record in gross income from the sale of Museum publications was achieved. In addition, the distribution of publications without charge through exchange agreements with other scientific institutions reached a new peak. A total of 75,715 copies was distributed, of which 22,340 were sent out as exchanges and 53,375 were sold. The increased burden from the continually increasing quantities of publications distributed was handled smoothly and efficiently through the splendid teamwork of Raymond A. N. Gomes and Miss Hilda Nordland of the Division of Publications.

The increased production itself called for co-operation of our many authors with Associate Editors Lillian A. Ross and Helen A. MacMinn and Assistant Editor Martha H. Mullen. All employees in the Division of Printing may well be proud of their part in the expanding publications program.

The Museum issued during the year twenty-nine publications in its scientific series, one in its popular series (reprint), two handbooks (one a reprint), one guidebook, and one annual report. Of these, the number of copies printed by the Museum Press totaled 43,268 from 2,104 pages of type composition. Twelve numbers of *Chicago Natural History Museum Bulletin* were printed, averaging 7,250 copies an issue. Other work included posters, price lists, lecture schedules, programs, labels for exhibits, picture postcards, stationery, specimen tags, and Museum Stories (see page 32), totaling 1,069,799 impressions.

Publications issued by the Museum in 1958 are listed on the following pages. Titles of articles by staff members printed in volume 29 of the Museum's *Bulletin* are also given.

MUSEUM PUBLICATIONS IN 1958

ADMINISTRATIVE PUBLICATION

Report of the Director to the Board of Trustees for the Year 1957, 164 pages, 26 illustrations

DEPARTMENT OF ANTHROPOLOGY

QUIMBY, GEORGE I.

Indians of the Western Frontier, Paintings of George Catlin, Handbook, Anthropology, 78 pages, 35 illustrations (reprint)

THOMPSON, J. ERIC S.

The Civilization of the Mayas, Popular Series, Anthropology, number 25, 98 pages, 36 illustrations, 1 map (sixth edition)

DEPARTMENT OF BOTANY

MCVAUGH, ROGERS

Flora of Peru, Botanical Series, volume 13, part 4, number 2, 253 pages

SCHWEINFURTH, CHARLES

Orchids of Peru, Fieldiana: Botany, volume 30, number 1, 268 pages, 45 illustrations, 1 map

STANDLEY, PAUL C., AND JULIAN A. STEYERMARK

Flora of Guatemala, Fieldiana: Botany, volume 24, part 1, 488 pages, 121 illustrations

DEPARTMENT OF GEOLOGY

DENISON, ROBERT H.

Early Devonian Fishes from Utah, Part III. Arthrodira, Fieldiana: Geology, volume 11, number 9, 93 pages, 31 illustrations

GOIN, COLEMAN J., AND WALTER AUFFENBERG

New Salamanders of the Family Sirenidae from the Cretaceous of North America, Fieldiana: Geology, volume 10, number 33, 11 pages, 3 illustrations

OLSON, EVERETT CLAIRE

Fauna of the Vale and Choza: 14; Summary, Review, and Integration of the Geology and the Faunas, Fieldiana: Geology, volume 10, number 32, 52 pages, 11 illustrations, 1 map

DEPARTMENT OF ZOOLOGY

BENESH, BERNARD

Philippine Zoological Expedition 1946-1947, Stag Beetles (Coleoptera: Lucanidae), Fieldiana: Zoology, volume 42, number 5, 13 pages, 1 illustration

BLAKE, EMMET R.

Birds of Volcán de Chiriquí, Panama, Fieldiana: Zoology, volume 36, number 5, 81 pages, 1 map

MUSEUM PUBLICATIONS IN 1958

DAVIS, D. DWIGHT

Mammals of the Kelabit Plateau, Northern Sarawak, Fieldiana: Zoology, volume 39, number 15, 29 pages, 1 illustration, 1 map

Tarsal Ligaments of the Spectacled Bear Tremarctos ornatus, Fieldiana: Zoology, volume 39, number 13, 15 pages, 7 illustrations (2 in color)

EMERSON, K. C., AND RONALD A. WARD

Philippine Zoological Expedition 1946-1947, Notes on Philippine Mallophaga, I. Species from Ciconiiformes, Anseriiformes, Falconiiformes, Galliiformes, Gruiformes and Charadriiformes, Fieldiana: Zoology, volume 42, number 4, 13 pages, 1 illustration

GREY, MARION

Descriptions of Abyssal Benthic Fishes from the Gulf of Mexico, Fieldiana: Zoology, volume 39, number 16, 35 pages, 7 illustrations, 10 tables

HERSHKOVITZ, PHILIP

A Geographic Classification of Neotropical Mammals, Fieldiana: Zoology, volume 36, number 6, 42 pages, 2 maps, 13 tables

INGER, ROBERT F.

A Note on the Philippine Frogs Related to Rana macrodon, Fieldiana: Zoology, volume 39, number 23, 3 pages

Notes on Fishes of the Genus Brachygobius, Fieldiana: Zoology, volume 39, number 14, 11 pages, 2 illustrations

Three New Skinks Related to Sphenomorphus variegatus (Peters), Fieldiana: Zoology, volume 39, number 24, 12 pages, 5 illustrations, 1 table

JEWETT, STANLEY G., JR.

Philippine Zoological Expedition 1946-1947, Stoneflies from the Philippines (Plecoptera), Fieldiana: Zoology, volume 42, number 6, 11 pages, 8 illustrations

JOBLING, B.

Streblidae from Yemen, With Description of One Subspecies of Ascodiapteron (Diptera), Fieldiana: Zoology, volume 39, number 17, 5 pages, 1 illustration

MARX, HYMEN

Catalogue of Type Specimens of Reptiles and Amphibians in Chicago Natural History Museum, Fieldiana: Zoology, volume 36, number 4, 90 pages

Egyptian Snakes of the Genus Psammophis, Fieldiana: Zoology, volume 39, number 18, 10 pages, 2 illustrations, 3 tables

MEDEM, FREDERICK J.

The Crocodilian Genus Paleosuchus, Fieldiana: Zoology, volume 39, number 21, 21 pages, 5 illustrations

RAND, AUSTIN L.

The Races of the Bush Shrike Dryoscopus cubla, Fieldiana: Zoology, volume 39, number 12, 3 pages

Notes on African Bulbuls, Family Pycnonotidae: Class Aves, Fieldiana: Zoology, volume 35, number 6, 78 pages

RAND, AUSTIN L., AND D. S. RABOR

The Races of the Shrike Lanius validirostris, Fieldiana: Zoology, volume 39, number 11, 2 pages

SCHMIDT, KARL P.

Some Rare or Little-known Mexican Coral Snakes, Fieldiana: Zoology, volume 39, number 19, 12 pages, 3 illustrations

MUSEUM PUBLICATIONS IN 1958

SMITH, ELLEN THORNE

Chicagoland Birds, Where and When to Find Them, Handbook, Zoology, 48 pages (maps and drawings by William J. Beecher)

SOLEM, ALAN

Marine Mollusks from Bougainville and Florida, Solomon Islands, Fieldiana: Zoology, volume 39, number 20, 14 pages

STROHECKER, H. F.

Philippine Zoological Expedition 1946-1947, A Synopsis of Philippine Endomychidae (Coleoptera), Fieldiana: Zoology, volume 42, number 3, 30 pages, 10 illustrations

TRAYLOR, MELVIN A., JR.

Birds of Northeastern Peru, Fieldiana: Zoology, volume 35, number 5, 57 pages

WOODS, LOREN P.

A New Genus and Species of Fish from the Gulf of Mexico (Family Emmelichthyidae), Fieldiana: Zoology, volume 39, number 22, 4 pages, 1 illustration

CHICAGO NATURAL HISTORY MUSEUM GUIDEBOOK

General Guide, Chicago Natural History Museum, 48 pages, 32 illustrations, floor plans, map (thirty-seventh edition)

JAMES NELSON AND ANNA LOUISE RAYMOND FOUNDATION

ANDRE, MARYL

Bible Animals, Museum Stories (9 stories, of which 8 stories [1958] are reprinted), 21 pages, 9 illustrations, paperbound

BUCHWALD, JUNE, AND HARRIET SMITH

Children of Indian America, Museum Stories (9 stories [1949] reprinted), 21 pages, 9 illustrations, paperbound

FLEMING, EDITH

Africa and Its people, Museum Stories (9 stories [1955] reprinted), 21 pages, 9 illustrations, 1 map, paperbound

SMITH, HARRIET, AND JUNE BUCHWALD

Children of Long Ago, Museum Stories (9 stories [1950] reprinted), 21 pages, 11 illustrations, paperbound

STROMQUIST, ANNE

Adventures of a Pebble, Museum Stories (8 stories [1950] reprinted), 19 pages, 9 illustrations, paperbound

SVOBODA, MARIE

Plants That the American Indians Used, Museum Stories (9 stories [1958] reprinted), 21 pages, 9 illustrations by Frances Foy, paperbound

WEAVER, DOLLA COX

Days of the Dinosaurs, Museum Stories (8 stories [1956] reprinted), 20 pages, 8 illustrations, 1 chart, paperbound

WORSHAM, NANCY

Stories behind Museum Zoology Exhibits, Museum Stories (9 stories [1955] reprinted), 21 pages, 10 illustrations, paperbound



A SUNDAY-SCHOOL CLASS
TAKES THE WINTER JOURNEY

"CHICAGO—WINTER RESORT FOR BIRDS"

"MUSEUM JOURNEYS"
ARE OFFERED BY
THE RAYMOND FOUNDATION

CHICAGO NATURAL HISTORY MUSEUM BULLETIN

Chicago Natural History Museum Bulletin, volume 29 (1958), 12 numbers, 96 pages, illustrated

ANDERSON, HOWARD

"New Pueblo in Arizona Brought to Light," no. 9, p. 5, 1 illustration

CHANGNON, HARRY S.

"Mineralogical Exhibits for Members' Night," no. 4, p. 7

"Mystery Gem-stone, 312 Pounds, Shown in New Niche," no. 12, pp. 5, 7, 3 illustrations

COLLIER, DONALD

"Classic Art of Veracruz Coast Exhibited," no. 12, p. 6, 3 illustrations

"New Exhibits of Middle American Culture," no. 4, p. 4, 2 illustrations

DAVIS, D. DWIGHT

"Eleven Boy-birds Flock to Woo One Little Prairie Hen," no. 10, pp. 5-6, 2 illustrations (and cover picture)

DENISON, ROBERT H.

"Search for Fossil Fish Undertaken in East," no. 1, p. 5

FORCE, ROLAND W.

"Museum Obtains Last of Great Oceanic Collections," no. 9, pp. 3-4, 7, 8 illustrations (and cover picture)

Review of *Ancient Voyagers in the Pacific* (by Andrew Sharp), no. 5, pp. 6-7

FORSLEV, ALBERT W.

"From Outer Space? Origin of Tektites Is a Mystery," no. 8, p. 3, 1 illustration

GREGG, CLIFFORD C.

"George A. Richardson, 1887-1958," no. 5, p. 2, 1 illustration

"Fifty Splendid Years at Museum Helm," no. 3, p. 2

INGER, ROBERT F.

"About St. Patrick and the Snakes," no. 3, p. 7, 1 cartoon

LEWIS, PHILLIP H.

"Members' Night Show of African Art," no. 4, p. 8, 1 illustration

"Primitive Art Exhibits Are Installed in African Halls," no. 1, pp. 3-4, 3 illustrations, 1 map

"What Is Primitive Art? Answer Told in Exhibit," no. 7, pp. 3-4, 1 illustration (and cover picture)

LISS, ALLEN S.

"Museum Aids in Chicago Area Salvage Dig," no. 11, p. 6, 2 illustrations [with Elaine Bluhm]

MCAFEE, PATRICIA

"Gems Are Rich in Lore and Lustre," no. 6, pp. 3, 4

"Gift of Over 7,000 Shells Includes Many Rarities," no. 11, pp. 4-5, 3 illustrations

"Poisons Save Our Treasures from Pests," no. 9, p. 6, 2 cartoons

MARTIN, PAUL S.

"Cultural Crossroads of the Southwest," no. 11, pp. 3, 5, 1 illustration

Review of *The Seven Caves* (by Carlton S. Coon) and *The Testimony of the Spade* (by Geoffrey Bibby), no. 3, pp. 6, 8

MUSEUM PUBLICATIONS IN 1958

QUIMBY, GEORGE I.

"Mastodons and Men in the Upper Great Lakes Area," no. 7, pp. 6-7, 2 illustrations, 4 maps

"New Evidence Links Chippewa to Prehistoric Culture," no. 1, pp. 7-8, 1 illustration

RAND, AUSTIN L.

"Abundance of Animals Defies Calculation," no. 7, pp. 4-5, 1 illustration

"Animal Life Had Its Origin in the Oceans," no. 3, pp. 7-8, 1 illustration

"Colorful Bird Stable Makes Debut at Museum," no. 1, p. 5, 1 illustration (and cover picture)

"Fingerprints Are Clues to Exhibits' Popularity," no. 6, pp. 5-6, 1 illustration

"Lifeblood of Science: Publications," no. 1, p. 2

"Nestling to Nuisance—Birds Make News," no. 8, pp. 6-7, 1 cartoon

"Speed of Birds," no. 2, pp. 4-5, 2 cartoons

"The 'Good Old Days' When All Explorers Had to Be Tough," no. 12, p. 4, 1 illustration

Review of *Extinct and Vanishing Birds of the World* (by James C. Greenway, Jr.), no. 4, p. 7

Review of *Vertebrates of the United States* (by W. Frank Blair and others), no. 2, p. 2

RICHARDSON, EUGENE S., JR.

"In Pursuit of Darkness," no. 7, pp. 2, 8

ROWELL, ALFRED LEE

"Pre-Gutenberg Printing Found in Mexico," no. 8, p. 7, 2 illustrations

ROY, SHARAT KUMAR

"Report on Meteorite Studies Abroad," no. 11, p. 2

SOLEM, ALAN

"Edgar Allen Poe, 'Ghost Writer,'" no. 10, p. 4

"Hunger and Thirst: Man and Snails," no. 6, p. 7

"Museum Acquires Zetek Shell Collection," no. 1, p. 4, 1 illustration

"Science Baffler: How Many Animals Are There?" no. 2, pp. 5-7, 1 illustration, 1 chart, 2 tables

"Shell Exhibit Features Little-known Inhabitants," no. 12, p. 3, 2 illustrations (and cover picture)

TURNBULL, WILLIAM D.

"Expedition Uncovers Wyoming Fossils," no. 10, p. 7, 2 illustrations

"Wyoming Dig Yields Fossil Mammals of Eocene," no. 1, p. 6, 1 diagram

WOODS, LOREN P.

"Fish Collecting on Coasts of Guianas and Brazil," no. 3, pp. 5-6, 2 illustrations, 1 map

Review of *Encyclopedia of Tropical Fishes* (by Herbert R. Axelrod and William Vorderwinkler), no. 10, p. 8

Review of *Guppies* (by Herbert R. Axelrod and Wilfred Whithorn), no. 9, p. 7

ZANGERL, RAINER

"Brontosaurus—A Bulky Lump of Ancient Protoplasm," no. 4, pp. 5-6, 3 illustrations (and cover picture)

ZANGERL, RAINER, AND EUGENE S. RICHARDSON, JR.

"How Shark Ate Shark in Ancient Indiana Sea," no. 10, pp. 2, 8, 1 illustration

OTHER PUBLICATIONS OF STAFF MEMBERS IN 1958

DEPARTMENT OF ANTHROPOLOGY

COLLIER, DONALD

"Comment" on *Archaeological Evidence of a Prehistoric Migration from the Rio Napo to the Mouth of the Amazon* (by Betty J. Meggers and Clifford Evans), in *Migrations in the New World Culture History* (edited by Raymond H. Thompson), *University of Arizona, Social Science Bulletin* No. 27, pp. 17-19

QUIMBY, GEORGE I.

"Archaeology, New World," in *The American Peoples Encyclopedia Yearbook, Events and Personalities of 1957*, pp. 190-194

"Fluted Paints and Geochronology of the Lake Michigan Basin," *American Antiquity*, vol. 23, no. 3, pp. 247-254

"Late Archaic Culture and the Algona Beach in the Lake Michigan Basin," *The Wisconsin Archeologist*, vol. 39, no. 3, pp. 175-179

RINALDO, JOHN B.

Review of *An Archaeological Survey of West Central New Mexico and East Central Arizona* (by Edward B. Danson), in *American Antiquity*, vol. 23, no. 4, p. 448

DEPARTMENT OF BOTANY

DAHLGREN, B. E.

"A New Species of *Copernicia* from Cuba," *Principes*, vol. 2, no. 6, pp. 103-105 [with S. F. Glassman]

JUST, THEODOR

"Fifty Years of Paleobotany, 1906-1956," in *Fifty Years of Botany* (edited by W. C. Steere, New York, McGraw-Hill Book Company), pp. 590-605, 4 illustrations

"The Scientist As Editor," *The A.I.B.S. Bulletin*, vol. 8, no. 1, pp. 14-16

Review of *The History of the British Flora, A Factual Basis for Phytogeography* (by H. Goodwin), in *The Journal of Geology*, vol. 66, no. 3, pp. 339-341

SHERFF, EARL E.

"Some Notes upon the Hawaiian Species of *Fagaria* L.," *American Journal of Botany*, vol. 45, no. 6, pp. 461-463

THIERET, JOHN W.

"*Agalinis* Rafinesque versus *Chytra* Gaertn. f.," *Taxon*, vol. 7, no. 5, pp. 142-143

"*Castelleja* Mutis ex L. f. versus *Bartsia* L.," *Taxon*, vol. 7, no. 3, pp. 83-84

"Economic Botany of the Cycads," *Economic Botany*, vol. 12, no. 1, pp. 3-41

"Grasses New to Illinois and the Chicago Region," *Rhodora*, vol. 60, no. 717, p. 264 [with S. F. Glassman]

DEPARTMENT OF GEOLOGY

FORSLEV, ALBERT W.

"A Geochemical Study of Some Late Wisconsin Tills," *Bulletin of the Geological Society of America*, vol. 68, no. 12, pt. 2, pp. 1727-1728 [abstract]

"From Outer Space? Origin of Tektites Is a Mystery," *The Template*, vol. 8, no. 2, pp. 4-8

OTHER PUBLICATIONS OF STAFF MEMBERS IN 1958

LANGFORD, GEORGE

The Wilmington Coal Flora from a Pennsylvanian Deposit in Will County, Illinois (Downers Grove, Illinois, Escon Associates), 360 pages, illustrated

TURNBULL, WILLIAM D.

"Notice of a Late Wisconsin Mastodon," *The Journal of Geology*, vol. 66, no. 1, pp. 96-97

"The Type of *Phlegethontia Linearis* Cope," *Journal of Paleontology*, vol. 32, no. 1, pp. 245-246

ZANGERL, RAINER

"A New Species of Chelid Turtle *Phrynops (Batrachemys dahl)* from Colombia," *Bulletin of the Museum of Comparative Zoology*, vol. 119, no. 5, pp. 375-390, 8 illustrations with [Frederick J. Medem]

"Die oligozanen Meerschdtkroten von Glarus," *Schweizerische Palaontologische Abhandlungen*, vol. 73, pp. 5-55, 46 illustrations

DEPARTMENT OF ZOOLOGY

GREY, MARION

"Second Specimen of the Bathypelagic Fish *Photostylus pycnopterus*," *Copeia*, 1958, pp. 56-57

HERSHKOVITZ, PHILIP

"A Critique of Professor Chester Bradley's 'Principle of Conservation,'" *The Bulletin of Zoological Nomenclature*, vol. 15, pp. 911-913

"A Synopsis of the Wild Dogs of Colombia," *Novedades Colombianas*, Museo de Historia Natural, Universidad del Cauca, no. 3, pp. 157-161

"Stabilization of Zoological Nomenclature by a 'Law of Prescription,'" *The Bulletin of Zoological Nomenclature*, vol. 15, pp. 630-632

"Technical Names of the South American Marsh Deer and Pampas Deer," *Proceedings of the Biological Society of Washington*, vol. 71, pp. 13-16

"The Status of Secondary Homonyms and the Concept of Permanent Rejection," *The Bulletin of Zoological Nomenclature*, vol. 15, pp. 1242-1243

"Type Localities and Nomenclature of Some American Primates, with Remarks on Secondary Homonyms," *Proceedings of the Biological Society of Washington*, vol. 71, pp. 53-56

Review of *Biological Investigations in the Selva Lacondona, Chiapas, Mexico* (edited by Raymond A. Painter, Jr.), in *The Quarterly Review of Biology*, vol. 33, p. 67

Review of *Mammals of the Anglo-Egyptian Sudan* (by Henry W. Setzer), in *The Quarterly Review of Biology*, vol. 33, pp. 81-82

INGER, ROBERT F.

"A New Gecko of the Genus *Cyrtodactylus*, with a Key to the Species from Borneo and the Philippine Islands," *Sarawak Museum Journal*, vol. 8, pp. 261-264

"Comments of the Definition of Genera," *Evolution*, vol. 12, pp. 370-384

"The Vocal Sac of the Colorado River Toad (*Bufo alvarius* Girard)," *Texas Journal of Science*, vol. 10, pp. 319-324

MARX, HYMEN

"Sexual Dimorphism in Coloration in the Viper *Cerastes vipera* L.," *Natural History Miscellanea* [Chicago], no. 164, pp. 1-2

OTHER PUBLICATIONS OF STAFF MEMBERS IN 1958

NELSON, EDWARD M.

"An Early Review Article on the Swim Bladder of Fishes," *Copeia*, 1957, pp. 301-302

"The One-eyed Ones," *Journal of American Folklore*, vol. 71, pp. 159-161, 3 illustrations

RAND, AUSTIN L.

"Birds," in *The American Peoples Encyclopedia Yearbook, Events and Personalities of 1957*, pp. 271-272

"Jungle and Domestic Fowl, *Gallus gallus*, in the Philippines," *The Condor*, vol. 60, p. 138 [with D. S. Rabor]

"*Lanius ludovicianus miamensis* Bishop, a Valid Race from Southern Florida," *The Auk*, vol. 74, pp. 503-505

"Patterns in the Use of Left and Right Limbs in Vertebrates," *The Wilson Bulletin*, vol. 70, pp. 92-93

Letter to the Editor: "Name-changing by the International Commission," *The Auk*, vol. 75, pp. 499-500

Review of *Birds of New Guinea* (by Tom Iredale), in *The Auk*, vol. 74, pp. 513-514

Review of *Check-list of North American Birds* (prepared by a committee of the American Ornithologists' Union, 5th edition), in *The Auk*, vol. 75, pp. 104-106

Review of *The Illustrated Library of the Natural Sciences* (edited by Edward M. Weyer, Jr.), in *The Chicago Sunday Tribune Magazine of Books*, December 7, 1958, p. 2

SOLEM, ALAN

"Biogeography of the New Hebrides," *Nature*, vol. 181, pp. 1253-1255

"Endodontide Landschnecken von Indonesien und Neu Guinea," *Archiv für Molluskenkunde*, vol. 87, pp. 19-26, 3 illustrations, 1 table

"Marines from Naus, Admiralty Islands," *Nautilus*, vol. 72, pp. 62-64

"New Land Snails from Queensland," *Nautilus*, vol. 72, pp. 20-22, 9 illustrations

TRAYLOR, MELVIN A., JR.

"Variation in South American Great Horned Owls," *The Auk*, vol. 75, pp. 143-149

WENZEL, RUPERT L.

"Incident Light Photomicrography and Other Useful Techniques in the Study of Minute Insects," *Proceedings of the Tenth International Congress of Entomology*, vol. 1, pp. 401-404

THE N. W. HARRIS PUBLIC SCHOOL EXTENSION

MARTIN, RICHARD A.

Butterflies and Moths (New York, Simon and Schuster), 56 pages, 60 illustrations (57 in color) [juvenile]

Insects Stamp Book (New York, Simon and Schuster), 20 pages, 19 illustrations (with 18 stamps in color) [juvenile]

CAFETERIA AND LUNCHROOM

The operation of the Museum cafeteria and lunchroom was distinctly successful, showing gains both in the number of persons served and in the income per customer. Financially the operation of the cafeteria made the best record in the history of the Museum. On two occasions special groups of visitors came to the Museum in the evening after normal closing hours to enjoy dinner, followed by tours conducted through areas usually not open to the public.

MAINTENANCE, CONSTRUCTION, AND ENGINEERING

The work of the maintenance, construction, and engineering personnel includes the care, cleaning, remodeling, and improvement of the building and the accomplishment of a myriad miscellaneous tasks not specifically assigned to others. Preparation of cases to house new exhibits, erection and removal of cases for special exhibits, remodeling offices, laboratories, and storage areas, and protection of the building from deterioration from all causes are all within the usual assignments handled. A statistical recital might be impressive, but it could not by any means describe the work of these units.

A few of the things accomplished during the year included such diverse tasks as making 1,200 wooden trays for the storage of specimens in steel cases, procuring and installing 33 steel storage cases, remodeling the Book Shop (see page 39), and doing everything connected with remodeling Hall 35 (Geology) and part of Hall 36 (Geology) except the installation of the specimens themselves (see page 66). The receipt of any large collection, such as the Captain A. W. F. Fuller Collection (see page 21), calls for moving shipping cases before and after they are unpacked by personnel of the scientific department immediately concerned. In addition, shipping chests were prepared or repaired, as required, for handling our expeditionary equipment, for specimens sent out on loan or exchange, and for our publications that are distributed over the world through the Smithsonian Institution. The good condition and cleanliness of the building and the comfort of our personnel and visitors while in the building testify to the effective operation of the maintenance, construction, and engineering divisions.

A general improvement in the lighting of the Museum was accomplished during the year. This program had many phases, including procurement of worklamps for offices and laboratories, improved case-lighting in Hall 35 and Hall 36 (both Geology),

together with necessary rewiring for floodlighting the whale skeleton in Hall 19 (Zoology) and the huge model of the moon in Hall 35 (see page 66). Additional electrical outlets were placed in Stanley Field Hall to give greater flexibility in handling our special exhibits (see page 26). The Rare Book Room of the Library was rearranged and rewired for new lighting fixtures (see page 82). Exhaust fans were installed in the public picnic-room on the ground floor and in the X-ray laboratory in the Department of Geology, and photography workrooms were rewired to provide for additional equipment.

Care of the collections, a prime objective, is aided by the continual poisoning of cases that house materials subject to insect damage, the care of special equipment controlling heat and atmospheric moisture that would be deleterious to film and certain other materials, and the constant fire inspections and care of fire-fighting equipment.

During the summer shut-down, boilers were cleaned, brickwork repaired, and boiler drums wirebrushed. The heater tank, chemical lines, pumps, and motors were cleaned and overhauled as necessary. The old coal-bunkers were replaced by new ones of copper-bearing steel, and new chains and flights were provided for the coal conveyor. Inability of the Chicago Tunnel Company to handle the removal and disposal of ashes required construction of a new lift from the boiler room to a height sufficiently above street level for easy dumping of waste material into trucks. General maintenance of all electric and pumping lines and equipment was carried on throughout the year. Under existing contracts, a total of 27,930,500 pounds of steam was provided for Shedd Aquarium and the Chicago Park District and an additional 36,455,500 pounds of steam were used by the Museum.

MISCELLANEOUS

In the pages that follow are submitted the Museum's financial statements, attendance statistics, door receipts, accessions, list of Members, articles of incorporation, and amended by-laws.

CLIFFORD C. GREGG, *Director*
Chicago Natural History Museum

ATTENDANCE STATISTICS

FINANCIAL STATEMENTS

LIST OF ACCESSIONS

LIST OF MEMBERS

ARTICLES OF INCORPORATION

AMENDED BY-LAWS



COMPARATIVE ATTENDANCE STATISTICS AND DOOR RECEIPTS

FOR YEARS 1958 AND 1957

| | 1958 | 1957 |
|--|-----------|---------------------|
| Total attendance..... | 1,049,401 | 1,097,561 |
| Paid attendance..... | 161,593 | 139,834 |
| Free admissions on pay days | | |
| Students..... | 45,106 | 35,532 |
| School children..... | 156,469 | 167,779 |
| Teachers..... | 8,955 | 7,347 |
| Members of the Museum..... | 708 | 518 |
| Service men and women..... | 811 | 757 |
| Special meetings and occasions..... | 3,519 | 3,249 |
| Press..... | 41 | 7 |
| Admissions on free days | | |
| Thursdays (51)..... | 131,665 | (52) 140,056 |
| Saturdays (52)..... | 246,379 | (52) 267,240 |
| Sundays (52)..... | 294,155 | (52) 335,242 |
| Highest attendance on any day | | |
| (November 29)..... | 15,133 | (May 4) 13,382 |
| Lowest attendance on any day | | |
| (January 6)..... | 244 | (January 7) 172 |
| Highest paid attendance (September 1)... | 3,332 | (September 2) 3,541 |
| Average daily admissions (363 days)..... | 2,891 | (363 days) 3,024 |
| Average paid admissions (208 days)..... | 777 | (207 days) 675 |
| <hr/> | | |
| Number of picture postcards sold..... | 247,866 | 221,896 |
| Sales of Museum publications (scientific and popular), <i>General Guide</i> , and photographs; checkroom receipts..... | \$ 29,675 | \$ 27,502 |

CHICAGO NATURAL HISTORY MUSEUM

COMPARATIVE STATEMENT OF RECEIPTS AND EXPENDITURES CURRENT FUNDS

FOR THE YEARS 1958 AND 1957

GENERAL OPERATING FUND

| RECEIPTS: | 1958 | 1957 |
|---|--------------------|---------------------|
| Endowment income— | | |
| From investments in securities..... | \$ 376,185 | \$ 352,608 |
| From investments in real estate..... | 428,280 | 404,118 |
| | <u>\$ 804,465</u> | <u>\$ 756,726</u> |
| Chicago Park District—tax collections..... | \$ 232,406 | \$ 238,704 |
| Annual and sustaining memberships..... | 28,925 | 30,825 |
| Admissions..... | 40,398 | 34,959 |
| Sundry receipts, including general purpose contributions..... | 69,573 | 56,144 |
| Restricted funds transferred to apply against Operating Fund expenditures (contra)..... | 212,741 | 107,831 |
| | <u>\$1,388,508</u> | <u>\$1,225,189</u> |
| EXPENDITURES: | | |
| Operating expenses— | | |
| Departmental operating expenses..... | \$ 548,329 | \$ 521,157 |
| General operating expenses..... | 438,007 | 423,919 |
| Building repairs and alterations..... | 127,997 | 116,628 |
| | <u>\$1,114,333</u> | <u>\$1,061,704</u> |
| Collections— | | |
| Purchases and expedition costs..... | \$ 191,899 | \$ 62,816 |
| Furniture, fixtures and equipment..... | 10,884 | 25,545 |
| Pension and employees' benefits..... | 73,240 | 69,301 |
| Provision for mechanical plant depreciation (contra)..... | * | 10,000 |
| | <u>\$1,390,356</u> | <u>\$1,229,366</u> |
| DEFICIT FOR YEAR before special appropriation.... | \$ 1,848 | \$ 4,177 |
| Appropriation from restricted funds to cover 1957 deficit..... | | 4,177 |
| DEFICIT FOR YEAR..... | <u>\$ 1,848</u> | <u><u>4,177</u></u> |

* The annual appropriation of \$10,000 in 1958 was offset by expenditures for elevator reconditioning

AUDITOR'S CERTIFICATE APPEARS ON FOLLOWING PAGE

CONTINUED ON NEXT PAGE

CHICAGO NATURAL HISTORY MUSEUM
COMPARATIVE STATEMENT OF RECEIPTS
AND EXPENDITURES—CURRENT FUNDS

FOR THE YEARS 1958 AND 1957 (CONTINUED)

THE N. W. HARRIS PUBLIC SCHOOL
EXTENSION FUND

| | 1958 | 1957 |
|-----------------------------|-----------------|-----------------|
| Income from endowments..... | \$ 30,106 | \$ 28,766 |
| Expenditures..... | 27,178 | 27,235 |
| SURPLUS FOR THE YEAR..... | <u>\$ 2,928</u> | <u>\$ 1,531</u> |

OTHER RESTRICTED FUNDS

| | | |
|--|-------------------|-------------------|
| RECEIPTS: | 1958 | 1957 |
| From Specific Endowment Fund investments.... | \$ 71,193 | \$ 67,212 |
| Contributions for specified purposes..... | 12,491 | 41,537 |
| Operating Fund appropriations for mechanical plant depreciation (contra)..... | * | 10,000 |
| Sundry receipts..... | 72,966 | 66,657 |
| | <u>\$ 156,650</u> | <u>\$ 185,406</u> |

| | | |
|---|--------------------|-------------------|
| EXPENDITURES: | | |
| Transferred to Operating Fund— | | |
| To apply against expenditures (contra)..... | \$ 212,741 | \$ 107,831 |
| To cover 1957 operating deficit..... | | 4,177 |
| Added to Endowment Fund principal..... | 52,000 | 75,386 |
| Loss on sales of securities..... | 3,763 | |
| | <u>\$ 268,504</u> | <u>\$ 187,394</u> |
| EXCESS OF EXPENDITURES OVER RECEIPTS..... | <u>\$(111,854)</u> | <u>\$ (1,988)</u> |

* The annual appropriation of \$10,000 in 1958 was offset by expenditures for elevator reconditioning

THE TRUSTEES,
CHICAGO NATURAL HISTORY MUSEUM:

In our opinion, the accompanying statement presents fairly the receipts and expenditures of the current funds of Chicago Natural History Museum for the year ended December 31, 1958, in conformity with generally accepted accounting principles applied on the same basis as in the preceding year. Our examination of the statement was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

ARTHUR YOUNG & COMPANY

Chicago, Illinois
January 20, 1959

USE IN 1958 OF SPECIAL FUNDS CONTRIBUTED IN FORMER YEARS

| | |
|--|-------------|
| EDWARD E. AYER LECTURE FOUNDATION FUND | |
| Cost of Museum lecture series..... | \$ 4,309.00 |
| Subsidy to publication program..... | 1,268.49 |
| FREDERICK AND ABBY KETTELLE BABCOCK FUND | |
| Subsidy to publication program..... | 1,376.54 |
| EMILY CRANE CHADBOURNE ZOOLOGY FUND | |
| Purchase of specimens..... | 618.13 |
| WILLIAM J. AND JOAN A. CHALMERS TRUST FUND | |
| Equipment for the William J. and Joan A. Chalmers Mineralogical Laboratory..... | 152.07 |
| Purchase of specimens..... | 247.00 |
| MRS. JOAN A. CHALMERS BEQUEST FUND | |
| Equipment for the William J. and Joan A. Chalmers Mineralogical Laboratory..... | 720.03 |
| CONOVER GAME-BIRD FUND | |
| Expedition to Peru..... | 4,787.35 |
| Purchase of specimens..... | 533.00 |
| THOMAS J. DEE FELLOWSHIP FUND | |
| Fellowship grant to Evett D. Hester..... | 900.00 |
| Fellowship grant to Alfredo Evangelista..... | 810.00 |
| Fellowship grant to D. S. Rabor..... | 500.00 |
| Fellowship grant to Bernard Benesh..... | 200.00 |
| GROUP INSURANCE FUND* | |
| Group insurance costs..... | 8,212.48 |
| Subsidy to Pension Fund..... | 5,027.41 |
| N. W. HARRIS PUBLIC SCHOOL EXTENSION FUND | |
| Care of collections and distribution of exhibits to schools of Chicago..... | 27,177.78 |
| THE JOHNSON FOUNDATION | |
| Research on waxy palms..... | 2,142.00 |
| LIBRARY FUND† | |
| Purchase of books and periodicals..... | 5,035.37 |
| JAMES NELSON AND ANNA LOUISE RAYMOND PUBLIC SCHOOL AND CHILDREN'S LECTURE FUND | |
| Subsidy to public school and children's lecture programs..... | 32,455.20 |
| DONALD RICHARDS FUND | |
| Subsidy to cryptogamic botanical research..... | 1,767.39 |
| MAURICE L. RICHARDSON PALEONTOLOGICAL FUND | |
| Field trip for Coal Age fossils in Indiana..... | 1,000.00 |

These funds have been used in accordance with the stipulations under which they were accepted by the Museum. In addition, the income from more than \$12,000,000 of contributed endowment funds was used in general Museum operation.

* Established by Stanley Field

† Established by Edward E. Ayer, Huntington W. Jackson, Arthur B. Jones, and Julius and Augusta N. Rosenwald

Contributions and Bequests

Contributions and bequests to Chicago Natural History Museum may be made in securities, money, books, or collections. They may, if desired, take the form of a memorial to a person or cause, to be named by the giver. For those desirous of making bequests to the Museum, the following form is suggested:

FORM OF BEQUEST

I do hereby give and bequeath to Chicago Natural History Museum of the City of Chicago, State of Illinois:

Cash contributions made within the taxable year to Chicago Natural History Museum to an amount not in excess of 20 per cent of the taxpayer's net income are allowable as deductions in computing net income for federal income tax

ACCESSIONS 1958

DEPARTMENT OF ANTHROPOLOGY—ACCESSIONS

ANDERSON, HOWARD, Flossmoor, Illinois: 5 arrowheads, scrapers, and potsherds—Illinois (gift)

ARIZONA STATE MUSEUM, Tucson: 86 potsherds—Arizona (on permanent loan)

BEYER, PROFESSOR H. O., Manila: 63 prehistoric stone implements—Philippines (gift)

BLACKWELDER, MR. AND MRS. PAUL, St. Louis: 10 garments—Polynesia (gift)

CHICAGO ACADEMY OF SCIENCES, Chicago: 12 pigeon whistles—China (gift)

CHICAGO NATURAL HISTORY MUSEUM: Collected by Dr. Paul S. Martin (Southwest Archaeological Expedition, 1958): 555 stone, bone, and shell artifacts, 1 skeleton, 49 restorable pottery vessels, 26,000 sherds

Purchases: 6,500 ethnological and archaeological specimens from Oceania, 11 Early Woodland stone and copper artifacts, 96 ethnological specimens from Brazil, 1 Japanese kimono, 18 oil paintings of Guatemalan Indians and market scenes

FULLER, CAPTAIN AND MRS. A. W. F., London: bracelet—Egypt (gift)

GORDON, MISS MARION G., Chicago: Woodland-type projectile point—Indiana (gift)

GOVERNMENT MUSEUM, Madras, India: 24 mid-Pleistocene stone tools—India (exchange)

GRAHAM, DR. DAVID C., Englewood, Colorado: 42 rubbings—China (gift)

GRUMBECKER, E. J., Chicago: 2 Philippine knives and sheaths, 1 Japanese sword and sheath (gift)

HART, MRS. CHESTER, Oak Park, Illinois: Japanese wedding gown, Tunisian peasant costume (gift)

HESTER, EVETT D., Chicago: 12 ancient bracelets, 3 stone implements—Philippines, 123 sherds—Siam (gift)

HOOGSTRAAL, HARRY, Cairo, Egypt: stone blade—Egypt (gift)

LISS, ALLEN S., Chicago: carved spoon—Philippines (gift)

NICHOLSON, MRS. EVELYN, Chicago: man's gown—China (gift)

PAGANO, CHARLES, Skokie, Illinois: archaic-type projectile point—Illinois (gift)

PERRY, MRS. I. NEWTON, Chicago: woven shell kilt—South Pacific (gift)

QUIMBY, GEORGE I., Chicago: 14 ethnological objects—Alaska (gift)

REED, MRS. C. A., Portland, Oregon: gown—China (gift)

REW, MRS. IRWIN, Evanston, Illinois: 12 ethnological objects—Northwest Coast and Indiana (gift)

STUDLEY, THE REVEREND ELLEN M., Chicago: rubbing—China (gift)

TRIER, ROBERT, McKenzie Bridge, Oregon: bronze shiva—Java, nephrite pendant—New Zealand, cotton textile—Ceylon (gift)

WEHRMACHER, WILLIAM H., III, Morton Grove, Illinois: grooved ax, chipped-stone scraper—Illinois (gift)

DEPARTMENT OF BOTANY—ACCESSIONS

AMERICAN MUSEUM OF NATURAL HISTORY, New York: carboniferous stump of *Sigillaria* (gift)

BARTLETT, FREDERICK, Chicago: 2 fruits of *Solanum quitoense* (gift)

BENNETT, HOLLY REED, Chicago: 4,723 specimens of flowering plants (gift)

BOLD, DR. HAROLD C., Austin: 3 specimens of algae (gift)

BONDAR, DR. GREGORIO, Salvador, Bahia, Brazil: specimen of palm (gift)

BRITISH MUSEUM (NATURAL HISTORY), London: 119 specimens of vascular plants (exchange)

BULLOCK, DR. DILLMAN S., Angol, Chile: 2 specimens of *Gomortega nitida* (gift)

CALIFORNIA, UNIVERSITY OF, Berkeley: 198 specimens of vascular plants (exchange)

CALIFORNIA ACADEMY OF SCIENCES, San Francisco: specimen of *Carpenteria californica* (gift)

CANRIGHT, DR. JAMES E., Bloomington, Indiana: 3 slides of *Drimys* wood specimens (gift)

CENTRO NACIONAL DE AGRONOMIA, Santa Tecla, Salvador: 89 specimens of flowering plants (exchange)

CHICAGO, UNIVERSITY OF, Chicago: 183 specimens of cycads and 1 fern (gift)

CHICAGO NATURAL HISTORY MUSEUM: Collected by Emil Sella (West Coast Botanical Field Trip, 1955): 3 wood specimens

Collected by Dr. John W. Thieret (Northern Great Plains Botanical Field Trip, 1958): 900 specimens of vascular plants

Purchases: 210 specimens of flowering plants—Africa; 11 specimens of flowering plants and 2 cones of *Pinus Lambertiana*—California; 1,475 specimens of flowering plants—Costa Rica; 18 wood specimens—Cyprus; 50 specimens of ferns—Malaya

DEPAUW UNIVERSITY, Greencastle, Indiana: 1,317 specimens of vascular plants (exchange)

DWYER, DR. JOHN, St. Louis: 33 specimens of grasses (gift)

DYBAS, HENRY S., Homewood, Illinois: 79 specimens of fungi (gift)

FLORIDA STATE UNIVERSITY, Tallahassee: 40 specimens of flowering plants (gift)

FOREST PRODUCTS LABORATORY, Madison, Wisconsin: 42 wood specimens (exchange)

GEORGIA, UNIVERSITY OF, Athens: 434 specimens of vascular plants (exchange)

GIBSON, MRS. DOROTHY, Chicago: 38 specimens of flowering plants (gift)

GLASSMAN, DR. SYDNEY F., Chicago: 118 specimens of flowering plants (exchange)

GREGG, DR. CLIFFORD C., Valparaiso, Indiana: specimen of *Calvatia* (gift)

HERRE, DR. ALBERT, Santa Cruz, California: specimen of *Usnea* (gift)

ILLINOIS, UNIVERSITY OF, Urbana: 447 specimens of vascular plants (exchange)

ILLINOIS STATE MUSEUM, Springfield: specimen of flowering plant (gift)

INSTITUTO AGRONÔMICO DO NORTE, Belém, Brazil: 49 specimens of vascular plants (exchange)

INSTITUTO AGRONÔMICO DO SUL, Pelotas, Brazil: 20 specimens of vascular plants (exchange)

IOWA, STATE UNIVERSITY OF, Iowa City: 819 specimens of flowering plants (exchange)

KAPLAN, DR. LAWRENCE, Chicago: 26 seed samples (gift)

KAUSEL, DR. EBERHARD, Santiago, Chile: 20 specimens of mosses and 412 specimens of flowering plants (exchange)

KYOTO, UNIVERSITY OF, Kyoto, Japan: 200 specimens of ferns (exchange)

LOS ANGELES COUNTY MUSEUM, Los Angeles: 58 specimens of flowering plants (gift)

LUNDGREN, JOHN, Chicago: 2 specimens of flowering plants (gift)

MICHIGAN, UNIVERSITY OF, Ann Arbor: 2,540 specimens of vascular plants and 846 type-photographs (exchange)

MISSOURI BOTANICAL GARDEN, St. Louis: 31 specimens of flowering plants (exchange)

NEW YORK BOTANICAL GARDEN, New York: 451 specimens of vascular plants and 19 type-photographs (exchange)

PALMER, DR. C. M., Cincinnati: 12 specimens of algae (gift)

PALMER, ERNEST J., Webb City, Missouri: 5 specimens of flowering plants (gift)

PALSER, DR. BARBARA F., Chicago: 129 specimens of flowering plants (gift)

ROYAL BOTANIC GARDENS, Kew, England: 19 specimens of flowering plants and 27 type-photographs (exchange)

SHERFF, DR. EARL E., Hastings, Michigan: 184 specimens of vascular plants (gift)

SILVA, DR. P. C., Urbana, Illinois: 8 specimens of *Codium* (exchange)

SOCIEDAD DE CIENCIAS NATURALES
LASALLE, Caracas, Venezuela: 287
specimens of flowering plants (exchange)

TRAVERSE, DR. ALFRED, Houston:
313 specimens of flowering plants (gift)

TRYON, DR. ROLLA, Cambridge,
Massachusetts: 53 specimens of ferns
(gift)

UNITED STATES DEPARTMENT OF
AGRICULTURE, Beltsville, Maryland:
specimen of *Araeococcus* (gift)

UNITED STATES NATURAL MUSEUM,
Washington, D.C.: 150 specimens of
flowering plants (exchange)

WELCH, PROFESSOR WINONA H.,
Greencastle, Indiana: specimen of moss
(gift)

WILLIAMS, DR. LOUIS O., Beltsville,
Maryland: 2 specimens of flowering
plants (gift)

WILSON, ARCHIE F., Summit, New
Jersey: type-photograph (gift)

DEPARTMENT OF GEOLOGY—ACCESSIONS

ATWOOD, OLIN D., Wheatland,
Wyoming: moss agate nodules—Wyom-
ing (gift)

BADER, DR. ROBERT, Urbana, Illi-
nois: Pleistocene fauna—Florida
(exchange)

BEYER, PROFESSOR H. O., Manila:
Philippine tektites—Philippines (gift)

BUCKINGHAM-VICTORIA SLATE COR-
PORATION, Richmond, Virginia: roofing
slate—Virginia (gift)

BYRNE, THOMAS R., East Gary, Indi-
ana: kog-grit and dune sand—Indiana
(gift)

CARR, J. DEAN (address lacking):
fossil skull and jaws of horse—Illinois
(gift)

CHICAGO, UNIVERSITY OF, Chicago:
fossil reptiles—Texas, lower jaws of fos-
sil reptile (*Toxolophosaurus cloudi*)—
Montana (gift)

CHICAGO NATURAL HISTORY MUSEUM:
Collected by Bryan Patterson and
Orville L. Gilpin (field work, 1949):
Mammot americanum tibia—Indiana

Collected by William D. Turnbull
and David Collier (Wyoming Paleon-
tological Expedition, 1958): fossil verte-
brates—Wyoming

Collected by Dr. Rainer Zangerl and
Dr. Eugene S. Richardson, Jr. (Indiana
Paleontological Field Trips, 1958): fos-
sil fishes—Indiana

Collected by Dr. Rainer Zangerl, Dr.
Robert H. Denison, and Dr. Eugene
S. Richardson, Jr. (field work, 1958):
fossil invertebrates—Illinois

Purchase: Charles D. Nelson Collec-
tion of minerals and fossil invertebrates
—various localities

CLARKE OIL AND REFINING COM-
PANY, Chicago: incomplete skeleton of
fossil deer—Illinois (gift)

DOERRER, MRS. ETHEL, Tinley Park,
Illinois: Silurian limestone, fossil insects
(*Palaeoxyris* and *Geraurus*)—Illinois
(gift)

FIELD, DR. HENRY, Coconut Grove,
Florida: dinosaur-egg fragments—
France (gift)

FILER, RUSSELL, Redlands, Califor-
nia: crystal specimens—various locali-
ties (exchange)

FLORIDA GEOLOGICAL SURVEY, Talla-
hassee: cast of skull of *Leptarctus anci-
pidens* (exchange); casts of Miocene
mustelids (gift)

FORSLEV, ALBERT W., Chicago:
minerals—Wisconsin (gift)

HESTON, WILLIAM, Chicago: fossil
rodent jaw and fossil rabbit skull—
South Dakota (gift)

HOTCHKISS, A. R., Evanston, Illinois:
minerals—North Carolina and Indiana
(exchange)

ILLINOIS GEOLOGICAL SURVEY,
Urbana: minerals—various localities
(gift)

ILLINOIS STATE MUSEUM, Spring-
field: cast of neck vertebrae of fossil
mammal (gift)

JOHNSON, MRS. ROY, Berkeley, Cali-
fornia: fragment of fossil ilium of horse
(gift)

KIRKBY, MR. AND MRS. SAMUEL,
Riverside, California: 880 insect-bearing
concretions—California (exchange); fos-
sil invertebrates—various localities (gift)

KJELLESVIG-WAERING, ERIK N.,
Buenos Aires, Argentina: fossil inverte-
brates—Bolivia (gift)

KONIZESKI, DR. RICHARD, Missoula,
Montana: fossil mammal jaw—Mon-
tana (gift)

KOVALIK, RONNEY, Palatine, Illinois:
fossil invertebrates—Wisconsin (gift)

LOWENSTAM, DR. HEINZ (address lacking): several lots of fossil invertebrates—various localities (gift)

NATIONAL CONFECTIONERS ASSOCIATION, Chicago: portable ultraviolet-light unit (gift)

OLSEN, EDWARD, Chicago: mineral specimen—Quebec (gift)

OSTRUM, GERALD, Winnetka, Illinois: mineral specimens—various localities (exchange)

PENNSYLVANIA, UNIVERSITY OF, Philadelphia: casts of fossil mammal *Giantopithecus* (gift)

PETTERSON, CHUCK, Minneapolis: fossil coral—Minnesota (gift)

QUEBEC COLUMBIUM LIMITED, Oka, Quebec: minerals—various localities (gift)

RESERVE MINING COMPANY, Silver Bay, Minnesota: banded taconite—Minnesota (gift)

RITCHIE, ARTHUR M., Olympia, Washington: fossil wood—Washington (gift)

ROHWER, MR. AND MRS. OSCAR, Chicago: fossil fish and fossil insect—Wyoming (gift)

SIMONS, ELWYN (address lacking): cast of molar of fossil mammal (gift)

SOLENBERGER, TOM, Albuquerque, New Mexico: brachiopod—New Mexico (gift)

SONNA, WILLIAM, Brookfield, Illinois: fossil skull—Illinois (gift)

UNION OIL COMPANY OF CALIFORNIA, Alberta: Devonian fish fragments—Canada (gift)

WEDRON SILICA COMPANY, Chicago: silica sand—Illinois (gift)

WELSH, DR. HENRY, Port Elizabeth, South Africa: 153 grams of Monze meteorite—(exchange)

WHEATON COLLEGE, Wheaton, Illinois: fossil fish—Brazil (gift)

WHITFIELD, DR. AND MRS. ROBERT H., Evanston, Illinois: fossil plant specimens—Tennessee (gift)

WILLIAM J. CHALMERS CRYSTAL FUND: minerals—various localities (purchase)

WOODHOUSE, C. D., Santa Barbara, California: bicolored dumortierite—Nevada (exchange)

ZEHRUNG, JERRY, Warsaw, Indiana: lower jaw of mammoth—Indiana (gift)

DEPARTMENT OF ZOOLOGY—ACCESSIONS

ABLER, WILLIAM, Chicago: butterfly—Wisconsin (gift)

ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA, Philadelphia: 150 non-marine shells—Central and South America (exchange)

ACADEMY OF SCIENCES, ZOOLOGICAL INSTITUTE, Leningrad, U.S.S.R.: 4 salamanders, 4 lizards—Asiatic U.S.S.R. (exchange)

ALLCHIN, MRS. RUTH, Warwickshire, England: 20 snails—Guatemala and England (gift)

AMERICAN MUSEUM OF NATURAL HISTORY, New York: 224 lots of shells—various localities, 1 frog—Arizona (exchange)

ANIMAL WELFARE LEAGUE, Chicago: snake—Illinois (gift)

AUSTRALIAN MUSEUM, Sydney, New South Wales: 4 landsnails—Lord Howe Island (exchange)

BARR, THOMAS C., Lubbock, Texas: beetle—Tennessee (gift)

BETLE, MISS DOROTHY E., Laramie, Wyoming: 12 lots of inland mollusks—Wyoming (gift)

BENESH, BERNARD, Burrville, Tennessee: 809 insects—United States (gift)

BEQUAERT, DR. JOSEPH C., Cambridge, Massachusetts: 2 landsnails—Texas (gift)

BONDAR, DR. GREGORIO, Salvador, Bahia, Brazil: 40 weevils—Brazil (gift)

BRITISH MUSEUM (NATURAL HISTORY), London: 4 frogs—India and Borneo (exchange)

CALIFORNIA, UNIVERSITY OF, Berkeley: 2 marine snails—Coronado Islands (exchange); DEPARTMENT OF ZOOLOGY FISHERIES, Los Angeles: 48 lots of fishes—various localities (gift)

CALIFORNIA ACADEMY OF SCIENCES, San Francisco: 146 beetles—United States (exchange)

CALIFORNIA DEPARTMENT OF FISH AND GAME, Terminal Island: fish—Lower California (gift)

CARNEGIE MUSEUM, Pittsburgh: bird—Venezuela (exchange)

CHICAGO NATURAL HISTORY MUSEUM:

Collected by Henry S. Dybas: (California Zoological Field Trip, 1952) 417 insects—western United States; (Midwest Zoological Field Work, 1953) 418 insects—Tennessee, Mississippi, and Louisiana; (Southeast Zoological Field Trip, 1955) 11,426 insects and allies—Florida, Georgia, North Carolina, and Tennessee; (Northwest Pacific Coast Zoological Field Trip, 1957) 9,098 insects and related arthropods—Pacific Northwest; (Southern Illinois Zoological Field Trip, 1958) 50 landsnails, 3 salamanders—southern Illinois

Collected by Harry Hoogstraal, Floyd G. Werner, and others (Philippine Zoological Expedition, 1946-47): 41,793 insects—Philippine Islands

Collected by Celestino Kalinowski (Peru Zoological Expedition, 1956-57): 383 mammals, 107 lots of fishes, 56 reptiles and amphibians—Peru

Collected by William D. Turnbull (Wyoming Paleontological Expedition, 1958): 2 mammals—Washakie Basin, Wyoming

Collected by Kjell von Sneidern (Colombia Zoological Expedition, 1958): 71 mammals—Colombia

Collected by Loren P. Woods: (Cooperative Field Work with United States Fish and Wildlife Service in Equatorial Atlantic, 1957 and 1958) 5,580 fishes—off coast of Guianas and Brazil; (field work, 1958) 356 fishes—Mississippi River at Guttenberg, Iowa

Purchases: 464 mammals, 1,772 birds, 20,133 insects, 4 lots of fishes and 1 cast of a *Latimeria*, 2,115 reptiles and amphibians, 393,968 lower invertebrates

CHICAGO ZOOLOGICAL SOCIETY, Brookfield, Illinois: 22 mammals, 1 bird, 3 turtles, 2 crocodilians—various localities (gift)

CHIN, PHUI KONG, Jesselton, North Borneo: 5 fishes—North Borneo (gift)

DAWSON, C. E., Wadmalaw Island, South Carolina: sea-snake—Persian Gulf (gift)

DELL, R. K., Wellington, New Zealand: 2 landsnail shells, 4 landsnail animals—New Zealand (exchange)

DLUHY, EUGENE, Chicago: butterfly—Indiana (gift)

DOMERGUE, DR. CHARLES A., Tunis, Tunisia: 9 lizards—Tunisia (exchange)

DRAKE, ROBERT J., Tucson, Arizona: 37 landsnails—Mexico (gift)

DUELLMAN, DR. WILLIAM E., Detroit: lizard—Mexico (gift)

DUEVER, MICHAEL, Chicago: 2 snakes—Israel (gift)

DUTOIT, DR. C. A., Stellenbosch, Union of South Africa: 5 frogs—South Africa (exchange)

EIGSTI, W. E., Hastings, Nebraska: 105 ectoparasites—Nebraska (gift)

ESCALANTE, RODOLFO, Montevideo, Uruguay: bird—Uruguay (gift)

FIELD, DR. HENRY, Coconut Grove, Florida: 10 lots of landshells and sow bugs, 3 frogs, 3 insects—Bahama Islands and France (gift)

FLEMING, DR. ROBERT L., Kathmandu, Nepal: 184 birds, 5 frogs, 13 snakes—Nepal (gift)

FOBES, SERGEANT EDWARD, Chicago: 3 marine shells—worldwide (gift)

GERHARD, WILLIAM J., Chicago: 1,065 true bugs—Colombia (gift)

GREGG, DR. CLIFFORD C., Valparaiso, Indiana: woodchuck—Indiana (gift)

GROW, RAYMOND, Gary, Indiana: 3 birds—Indiana (gift)

HAMERSTROM, FRED, Plainfield, Wisconsin: 2 birds—Wisconsin (exchange)

HAMILTON, DR. W. J., JR., Ithaca, New York: 4 mustelid bacula—New York and Minnesota (to replace lost specimens)

HARRIS, DR. H. M., Ames, Iowa: 16 bugs—United States (gift)

HARTMAN, JAMES A., Chicago: 3 velvet ants—Nebraska (gift)

HENDRICKSON, JOHN R., Singapore, Malaya: 5 mammals—Malaya (gift)

HOOGSTRAAL, HARRY, Cairo, Egypt: 290 mammals, 113 birds, 8 clutches of bird eggs, 436 reptiles and amphibians, 56 insects, 2 slides of sucking lice—Egypt, New Guinea, and Wales (gift)

HOPKINS, TIM, Redwood City, California: beetle—California (gift)

HUBBS, DR. CARL L., La Jolla, California: 31 birds—Guadalupe (gift)

HUMMELINCK, DR. P. WAGENAAR, Utrecht, Netherlands: 58 lots of landsnails—Lesser Antilles (gift)

HYMAN, DR. LIBBIE, New York: 5 landslugs—New York (gift)

IMAMURA, DR. TAJI, Mito, Japan: 25 slides of watermites—Japan (gift)

JACKSON, RALPH W., Cambridge, Maryland: 450 shells—South America (exchange); 167 shells—Ecuador, 150 snails—Argentina (gift)

JACOBSON, MORRIS K., Rockaway Beach, New York: 1,300 shells—North America and West Indies (gift)

KISTNER, DR. DAVID, Rochester, New York: 25 beetles—Africa (gift)

KLAWE, W. L., La Jolla, California: 4 lizards, 1 lot of lizard eggs—Cocos Islands (gift)

KOHL, DR. GLEN M., Hamilton, Montana: 5 ticks—Texas (gift)

KRAUSS, DR. N. L. H., Honolulu: 31 reptiles and amphibians—various localities, 50 lower invertebrates—Mariana Islands (gift)

KUNTZ, DR. ROBERT E., care of APO, San Francisco: 1,248 reptiles and amphibians—Formosa (exchange); 1 bat, 96 fishes, 498 reptiles and amphibians, 65 nonmarine mollusks—Formosa and Pakistan (gift)

LEHMANN, DR. F. C., Cali, Colombia: 20 monkey skins—Colombia (gift)

LINCOLN PARK ZOO, Chicago: 3 mammals, 7 lizards—various localities (gift)

LINDAR, ALBERT J., Chicago: 2 land snails—Haiti (gift)

LOVERIDGE, ARTHUR, St. Helena, South Atlantic: 20 frogs, 3 lots of frog larvae, 1 egg-mass of frogs—St. Helena (gift)

LUND UNIVERSITY, ZOOLOGICAL INSTITUTE, Lund, Sweden: 111 frogs—South Africa (exchange)

MAHLBERG, MILTON, Rockford, Illinois: land planarian—Illinois (gift)

MALKIN, BORYS, Minneapolis: 1 land shell—Brazil, 2 microscope slides of 7 aphids—United States and Mexico (gift)

MENZIES, J. I., London: 77 frogs—Sierra Leone, West Africa (gift)

MICHIGAN, UNIVERSITY OF, MUSEUM OF ZOOLOGY, Ann Arbor: 31 land snails—Central America, 7 fishes—Alabama and Missouri (exchange)

MILSTEAD, DR. WILLIAM W., Lubbock, Texas: 23 frogs—Brazil and Argentina (gift)

MOHORTER, WILLARD, Cincinnati: 45 snails—Mauritius and Grenada (exchange); 88 marine shells—worldwide (gift)

MUSEO CIVICO DI STORIA NATURALE, Genoa, Italy: 21 reptiles and amphib-

ians—Burma, Sumatra, Mentawai Islands, and Italy (exchange)

MUSEO DE HISTORIA NATURAL Montevideo, Uruguay: 40 fresh-water clams—Uruguay (gift)

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 Hart, Max A.
 Hartmann, A. O.
 Hartung, George, Jr.
 Hartz, W. Homer
 Harvey, Byron, III
 Harvey, Daggett
 Harvey, Richard M.
 Harwood, Thomas W.
 Hass, G. C.
 Haugen, Bernhart
 Hawkes, Joseph B.
 Hay, Mrs. William
 Sherman
 Hayakawa, Dr. S. I.
 Hayes, Harold C.
 Hayes, Miss Mary E.
 Haynie, Miss Rachel W.
 Hays, Mrs. Arthur A.
 Hayward, Mrs.
 Marshall L., Jr.
 Hazlett, Dr. William H.
 Hazlett, Mrs. William H.
 Healy, Vincent Jerrens
 Hearst, Mrs. Jack W.
 Heaton, Harry E.
 Heaton, Herman C.
 Hecht, Kenneth G.
 Heffernan, Miss Lili
 Hefner, Adam
 Heide, Mrs. Bernard H.
 Heiman, Marcus
 Heinzelman, Karl
 Heinzen, Mrs. Carl
 Heisler, Francis
 Hejna, Joseph F.
 Heldmaier, Miss Marie
 Helfrich, J. Howard
 Heller, John A.
 Heller, Mrs. Florence G.
 Hellman, George A.
 Hellyer, Walter
 Henderson, Kenneth M.
 Henkel, Frederick W.
 Henley, Dr. Eugene H.
 Henschel, Edmund C.
 Herbst, LeRoy B.
 Herron, James C.
 Herron, Mrs. Oliver L.
 Hertz, Mrs. Fred
 Hertzberg, Lawrence
 Herwig, George

ASSOCIATE MEMBERS (CONTINUED)

- Herwig, William D., Jr.
 Herz, Mrs. Alfred
 Hesse, E. E.
 Heverly, Earl L.
 Hibbard, Mrs. W. G.
 Hibben, Joseph W.
 Hieber, Master J. Patrick
 Hildebrand, Dr.
 Eugene, Jr.
 Hildebrand, Grant M.
 Hill, Carlton
 Hill, Rolwood R.
 Hill, Mrs. Russell D.
 Hill, Stacy H.
 Hille, Dr. Hermann
 Hillebrecht, Mrs.
 Marjory A.
 Hind, Mrs. John Dwight
 Hines, Charles M.
 Hinman, Mrs. Estelle S.
 Hinrichs, Henry, Jr.
 Hintz, Mrs. Aurelia
 Bertol
 Hirsch, Edwin W.
 Hirsch, LeRoy E.
 Histed, J. Roland
 Hixon, Mrs. Robert
 Hodgkinson, Mrs. W. R.
 Hodgson, Mrs. G. C.
 Hoefman, Harold L.
 Hoffman, Miss
 Elizabeth
 Hoffman, Edward
 Hempstead
 Hoffman, Raymond A.
 Hogan, Robert E.
 Hokin, Edwin E.
 Holabird, W. S., Jr.
 Holden, Edward A.
 Holinger, Dr. Paul H.
 Hollander, Mrs. Samuel
 Holleb, Marshall M.
 Holleb, A. Paul
 Hollenbach, Louis
 Holliday, W. J.
 Hollins, Gerald
 Holloway, Allen D.
 Holloway, J. L.
 Holmberg, Mrs.
 Adrian O.
 Holmblad, Dr.
 Edward C.
 Holmburger, Max
 Holmes, Miss Harriet F.
 Holmes, J. A.
 Holmes, William
 Holmes, William N.
 Holt, Miss Ellen
 Holt, McPherson
 Holub, Anthony S.
 Holzheimer, Carl
 Hooper, Miss Frances
 Hoover, Mrs. Fred W.
 Hoover, H. Earl
 Hope, Alfred S.
 Hopkins, Albert L.
 Hopkins, Mrs. James M.
 Hopkins, Mrs.
 James M., Jr.
 Horcher, William W.
 Horne, Mrs. William
 Dodge, Jr.
 Horner, Mrs.
 Maurice L., Jr.
 Horton, Mrs. Helen
 Horton, Horace B.
 Horween, Arnold
 Horween, Isidore
 Hosbein, Louis H.
 Hough, Frank G.
 Hovland, Mrs. John P.
 Howard, Bailey K.
 Howe, Charles Albee
 Howe, Clinton W.
 Howe, Ralph B.
 Howe, Roger F.
 Howes, Mrs. Frank W.
 Howie, Mrs. James E.
 Howse, Richard G.
 Howson, Louis R.
 Hoyne, Miss Susan D.
 Hoyt, Mrs. Phelps B.
 Hraback, L. W.
 Hrdlicka, Mrs. John D.
 Huber, Dr. Harry Lee
 Hudson, Miss
 Katherine J.
 Huey, Mrs. A. S.
 Hufty, Mrs. F. P.
 Huggins, G. A.
 Hughes, Dr. Charles E.
 Hughes, John E.
 Hume, James P.
 Humphrey, H. K.
 Huncke, Oswald W.
 Hunding, B. N.
 Hunt, George L.
 Hunt, Jarvis
 Huska, Mrs. Joseph
 Hust, George
 Huszagh, Ralph D.
 Hutchinson, Foye P.
 Hutchinson, Samuel S.
 Hyatt, R. C.
 Ickes, Raymond W.
 Idelman, Bernard
 Igoe, Michael L.
 Iker, Charles
 Ilg, Robert A.
 Illich, George M., Jr.
 Ingalls, Allin K.
 Ingersoll, Mrs. S. L.
 Ingram, Frank H.
 Inlander, N. Newton
 Inlander, Samuel
 Irons, Dr. Ernest E.
 Isham, George S.
 Isham, Henry P.
 Isham, Henry P., Jr.
 Ives, Clifford E.
 Ives, George R.
 Jackson, Allan
 Jackson, Archer L.
 Jackson, Mrs. W. A.
 Jacobi, Miss Emily C.
 Jacobs, Julius
 Jacobs, Mrs. Walter H.
 Jacobson, Raphael
 James, Walter C.
 Jameson, Clarence W.
 Jancosek, Thomas A.
 Jansey, Dr. Felix
 Janson, Dr. C. Helge M.
 Janusch, Fred W.
 Jarchow, Mrs. C. E.
 Jeffries, Dr. Daniel W.
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 Jetzinger, David
 Jirgal, John
 Jirka, Dr. Frank J.
 John, Dr. Findley D.
 Johnson, Dr. Adelaide
 Johnson, Alvin O.
 Johnson, Calmer L.
 Johnson, Mrs. Harley
 Alden
 Johnson, Hjalmar W.
 Johnson, Norman E.
 Johnson, Mrs. O. W.
 Johnson, P. Sveinbjorn
 Johnson, Philip C.
 Johnston, Edward R.
 Johnston, Miss Fannie S.
 Johnston, Mrs. Hubert
 McBean
 Johnston, Mrs. M. L.
 Jolly, Miss Eva Josephine
 Jonak, Frank J.
 Jones, Dr. Fiske
 Jones, Gordon M.
 Jones, James B.
 Jones, Dr. Margaret M.
 Jones, Melvin
 Jones, Miss Susan E.
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 Joseph, Louis L.
 Joy, Guy A.
 Judson, Clay
 Juergens, H. Paul
 Julien, Victor R.

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- Kahn, Mrs. Arthur S.
 Kahn, J. Kesner
 Kahn, Jerome J.
 Kaine, James B.
 Kamins, Dr. Maclyn M.
 Kane, Jerome M.
 Kanter, Jerome J.
 Kaplan, Morris I.
 Kaplan, Nathan J.
 Kaplan, Stanley A.
 Kasch, Frederick M.
 Katz, Mrs. Sidney L.
 Katz, Solomon
 Katzenstein, Mrs.
 George P.
 Katzin, Frank
 Kauffmann, Alfred
 Kaufman, Justin
 Kaufmann, Dr.
 Gustav L.
 Kavanagh, Clarence H.
 Kay, Mrs. Marie E.
 Keach, Benjamin
 Keare, Mrs. Spencer R.
 Kehoe, Mrs. High Boles
 Keith, Stanley
 Kelemen, Rudolph
 Kelly, Arthur Lloyd
 Kelly, Barbara Wetten
 Kelly, Mrs. Haven Core
 Kelly, T. Lloyd
 Kemper, Hathaway G.
 Kemper, Miss Hilda M.
 Kemper, James S.
 Kempner, Harry B.
 Kempner, Stan
 Kendrick, John F.
 Kennedy, Mrs. E. J.
 Kennedy, Lesley
 Kenney, Clarence B.
 Kenny, Henry
 Kent, Robert H.
 Kern, Mrs. August
 Kern, H. A.
 Kern, Dr. Nicholas H.
 Kern, Trude
 Kerwin, Edward M.
 Kestnbaum, Meyer
 Kettering, Mrs.
 Eugene W.
 Ketzler, A. C.
 Kew, Mrs. Stephen M.
 Kidwell, L. B.
 Kiessling, Mrs. Charles S.
 Kile, Miss Jessie J.
 Kimball, Paul C.
 Kimball, William W.
 Kimbark, John R.
 King, Mrs. Charles G.
 King, Clinton B.
 King, Harold R.
 Kingman, Mrs. Arthur G.
 Kinsey, Robert S.
 Kirkland, Mrs.
 Weymouth
 Kirst, Lyman R.
 Kitchell, Howell W.
 Kitzelman, Otto
 Klee, Steven Michael
 Kleinpell, Dr. Henry H.
 Kleist, Mrs. Harry
 Kleppinger, William H.
 Kleutgen, Dr. Arthur C.
 Klinetop, Mrs. Charles W.
 Knapp, William G.
 Knickerbocker, Miss
 Paula
 Knight, Howard
 Knight, John S.
 Knopf, Andrew J.
 Knutson, George H.
 Koch, Mrs. Fred J.
 Koch, Raymond J.
 Koch, Robert J.
 Kochs, August
 Koehnlein, Wilson O.
 Kohn, Henry L.
 Kolbe, Frank F.
 Kolehmainen, Waino M.
 Kopf, Miss Isabel
 Kopinski, Louis
 Koppenaar, Dr.
 Elizabeth Thompson
 Kornblith, Mrs.
 Howard G.
 Kosmach, Frank P.
 Kosobud, William F.
 Kotal, John A.
 Kotin, George N.
 Koucky, Dr. J. D.
 Kraft, John H.
 Kraft, Norman
 Kralovec, Emil G.
 Kralovec, Mrs. Otto J.
 Kraus, Samuel B.
 Kraus, William C.
 Krautter, L. Martin
 Kresl, Carl
 Kretschmer,
 Herman L., Jr.
 Krez, Leonard O.
 Krider, E. A.
 Kroehler, Kenneth
 Kroeschell, Robert A.
 Kropff, C. G.
 Krost, Dr. Gerard N.
 Kuehn, A. L.
 Kuh, Mrs. Edwin J., Jr.
 Kuhn, Frederick T.
 Kuhn, Dr. Hedwig S.
 Kunka, Bernard J.
 Kunstadter, Albert
 Kunstadter, Sigmund W.
 Kurfess, John Fredric
 Kurtzon, Morris
 Kurzdorfer, E. T.
 Kutchins, Edmund
 Laadt, George A.
 Lacey, Miss Clara R.
 Laffin, Miss June
 Atchison
 Laffin, Louis E., Jr.
 Laffin, Mrs. Louis E., Jr.
 Laffin, Louis E., III
 Laffin, Miss Mary
 Josephine
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 Laing, William
 Lambert, C. A.
 Lambrecht, Carl R., Jr.
 Lampert, Wilson W.
 Lanahan, Mrs. M. J.
 Lane, F. Howard
 Lang, Edward J.
 Langdon, Lawrence E.
 Langenbach, Mrs. Alice R.
 Langford, Mrs. Robert E.
 Langhorne, George
 Tayloe
 Lanman, Mrs.
 Edward Boylston
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 Larimer, Howard S.
 Larkin, Mrs. Walter D.
 Larsen, Samuel A.
 Larson, Mrs. Sarah G.
 Lasch, Harry
 Lassers, Sanford B.
 Latshaw, Dr. Blair S.
 Lautmann, Herbert M.
 Lavers, A. W.
 Lavidge, Arthur W.
 Law, Mrs. Robert O.
 Lawless, Dr. Theodore K.
 Lawson, David A.
 Lax, John Franklin
 Layden, Michael J.
 Lazar, Maurice
 Leahy, George J.
 Leahy, James F.
 Leavell, James R.
 Le Baron, Miss Edna
 Lebold, Samuel N.
 Lebolt, John Michael
 Lederer, Dr. Francis L.
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 Lefens, Walter C.
 Lehmann, Robert O.
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 Leighton, George N.

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- Leland, Miss Alice J.
 Leland, Mrs. Rosco G.
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 Lenz, J. Mayo
 Leonard, Arthur T.
 Lerch, William H.
 Lessman, Gerhard
 Le Tourneau, Mrs.
 Robert
 Levi, Julian H.
 Levinson, Mrs. Salmon O.
 Levitan, Benjamin
 Levy, Alexander M.
 Levy, Arthur G.
 Lewendowski,
 Sigmund W.
 Lewis, Mrs. J. J.
 L'Hommedieu, Arthur
 Liebenow, J. Gus
 Liebenson, Harold A.
 Lilien, Mrs. K. K.
 Lill, George, II
 Lillyblade, Clarence O.
 Lindar, Albert J.
 Linden, John A.
 Lindheimer, B. F.
 Linn, Howard
 Little, Mrs. E. H.
 Littler, Harry E., Jr.
 Livingston, Julian M.
 Livingston, Mrs.
 Milton L.
 Lizzard, Joseph F.
 Llewellyn, Mrs. Ross
 Lodge, Robert H.
 Loeb, Hamilton M.
 Loewenberg, Israel S.
 Loewenberg, M. L.
 Loewenherz, Emanuel
 Loewenstein, Richard M.
 Loewy, Dr. Arthur
 Long, William E.
 Loomis, D. P.
 Loomis, Reamer G.
 Lord, Arthur R.
 Lord, John S.
 Lord, Mrs. Russell
 Lotz, Philip W.
 Loucks, Charles O.
 Louer, Albert E. M.
 Louis, Mrs. John J.
 Lovgren, Carl
 Lowell, Arthur J.
 Lucey, Patrick J.
 Ludwig, Earle
 Ludolph, Wilbur M.
 Lundy, Dr. Clayton J.
 Luria, Herbert A.
 Lusk, R. R.
 Lustgarten, Samuel
 Lydon, Robert R.
 Lyford, Harry B.
 Lynch, J. W.
 Lyon, Charles H.
 Mabee, Mrs. Melbourne
 MacDonald, E. K.
 MacIntyre, Mrs. M. K.
 MacKenzie, William J.
 Mackey, Frank J.
 Mackinson, Dr. John C.
 Mackoff, Mrs. Saul
 MacLellan, K. F.
 MacMurray, Mrs.
 Donald
 Madlener, Mrs.
 Albert F., Jr.
 Madlener, Otto
 Madrin, Mrs. Charles
 Maehler, Edgar E.
 Magan, Miss Jane A.
 Magerstadt, Madeline
 Magnus, Albert, Jr.
 Magnuson, Mrs. Paul
 Maher, Mrs. D. W.
 Main, Walter D.
 Majka, F. L.
 Majors, Mrs. B. S.
 Makler, Joseph H.
 Maling, Albert
 Manasse, De Witt J.
 Manaster, Harry
 Mandel, Mrs. Aaron W.
 Mandel, Edwin F.
 Mandel, Miss Florence
 Mandel, Mrs. Robert
 Manegold, Mrs.
 Frank W.
 Manierre, Louis
 Manz, Mrs. Carolyn D.
 Maremont, Arnold H.
 Mark, Griffith
 Marker, Van E.
 Marquart, Arthur A.
 Marsh, A. Fletcher
 Marsh, Mrs. Marshall S.
 Marsh, Peter John
 Martin, Mrs. George B.
 Martin, George F.
 Martin, Samuel H.
 Martin, Wells
 Marx, Adolf
 Marzluff, Frank W.
 Marzola, Leo A.
 Mason, Willard J.
 Masse, B. A.
 Masterson, Peter
 Mathesius, Mrs. Walther
 Matson, J. Edward
 Maurer, Dr. Siegfried
 Maxant, Basil
 Maxwell, Lloyd R.
 Maxwell, W. Stirling
 Mayer, Frank D.
 Mayer, Herman J., Jr.
 Mayer, Isaac H.
 Mayer, Leo
 Mayer, Oscar G.
 Mazurek, Miss Olive
 McAlvin, Mrs. James H.
 McArthur, Billings M.
 McCahey, James B.
 McCarthy, Joseph W.
 McCausland, Mrs.
 Clara L.
 McCloud, Thomas W.
 McClun, John M.
 McCormick, Mrs.
 Chauncey
 McCormick, Howard H.
 McCormick, Leander J.
 McCormick,
 Robert H., Jr.
 McCormick, Roger
 McCrea, Mrs. W. S.
 McCreight, Louis Ralph
 McCutcheon, Mrs.
 John T.
 McDonald, E. F., Jr.
 McDonald, Lewis
 McDougal, C. Bouton
 McDougal, David B.
 McDougal, Mrs. James B.
 McDougal, Mrs. Robert
 McErlean, Charles V.
 McGraw, Max
 McGurn, Matthew S.
 McKinney, Mrs. Hayes
 McLennan, Mrs.
 Donald R., Sr.
 McLennan, William L.
 McMenemy, Logan T.
 McMillan, John
 McMillan, W. B.
 McNair, F. Chaloner
 McNamara, Louis G.
 McNamara, Robert C.
 McNamee, Peter F.
 McNulty, Joseph D.
 McPherson, Cleo Edwin
 McQuarrie, Mrs. Fannie
 McReynolds, Mrs.
 Ruth M.
 Mead, Dr. Henry C. A.
 Medsker, Dr. Ora L.
 Meers, Henry W.
 Mehan, Mrs. Georgette
 Meidell, Harold
 Melcher, George Clinch
 Melody, Miss Margaret
 Melnick, Leopold B.
 Merriam, Miss Eleanor
 Merrill, Miss Marion E.

ASSOCIATE MEMBERS (CONTINUED)

- Metz, Dr. Arthur R.
Metzger, Roswell W.
Meyer, Mrs. A. H.
Meyer, Charles A.
Meyer, Dr. Charles A.
Meyer, Charles Z.
Meyerhoff, A. E.
Meyers, Erwin A.
Meyers, Jonas
Michaels, Allen C.
Michaels, Everett B.
Michel, D. Daniel
Michel, Dr. William J.
Michet, Dr. Clement J.
Middleton, J. A.
Midowicz, C. E.
Mielenz, Robert K.
Milburn, Miss Anne L.
Milhening, Frank
Milhoan, F. B.
Miller, Miss Bertie E.
Miller, Mrs. Clayton W.
Miller, Creighton S.
Miller, Mrs. Donald J.
Miller, Mrs. F. H.
Miller, Mrs. George
Miller, Hyman
Miller, John S.
Miller, Mrs. Olive
Beaupre
Miller, Oren Elmer
Miller, Oscar C.
Miller, William H.
Milliken, John F.
Mills, Allen G.
Mills, Mrs. Dorothy
Stone
Mills, Lloyd Langdon
Miner, Dr. Carl S.
Miner, Wesley A.
Mitchell, John J.
Mock, Dr. Harry Edgar
Moeller, George
Moist, Mrs. Samuel E.
Mojonnier, Timothy
Mollan, Mrs. Ferne T.
Molloy, David J.
Mong, Mrs. C. R.
Monheimer, Henry I.
Moore, Chester G.
Moore, Harold A.
Moore, Paul
Moore, Philip Wyatt
Morey, Dr. Charles W.
Morgan, Miss
Elizabeth W.
Moroni, Aldo L.
Morrison, Mrs. Harry
Morrison, James C.
Morrow, Mrs. John, Jr.
Morse, Mrs. Charles J.
Morse, Leland R.
Morse, Mrs. Milton M.
Morse, Robert H.
Morton, Sterling
Moses, Howard A.
Mosher, Edward A.
Moss, Jerome A.
Mossman, John E.
Mouat, Andrew J.
Moxon, Dr. George W.
Moyer, Mrs. Paul S.
Muehlstein, Mrs.
Charles
Mueller, Austin M.
Mueller, J. Herbert
Mulhern, Edward F.
Munroe, Moray
Murphy, Joseph D.
Murphy, O. R.
Murphy, Robert E.
Muszynski, John J.
Myrland, Arthur L.
Naess, Sigurd E.
Nagel, Mrs. Frank E.
Nance, Willis D.
Naumann, Miss Susan
Nebel, Herman C.
Neely, Mrs. Lloyd F.
Nehls, Arthur L.
Nelson, Arthur W.
Nelson, Charles G.
Nelson, Donald M.
Nelson, James S.
Nelson, Victor W.
Neskow, Dr. Peter S. Y.
Nessler, Robert P.
Neuman, Sidney
Neumann, Arthur E.
Newberger, Joseph
Michael
Newhouse, Karl H.
Newman, Charles H.
Newton, C. G.
Nichols, Frank Billings
Nichols, J. C.
Nilsson, Mrs.
Goodwin M.
Nishkian, Mrs.
Vaughn G.
Nitze, Mrs. William A.
Noble, Daniel E.
Noble, Samuel R.
Noonan, Edward J.
Norem, Mrs. Lawrence E.
Norian, Richard
Norman, Harold W.
Norris, Mrs. Lester
Norton, Christopher D.
Novak, Charles J.
Noyes, Allan S.
Noyes, Mrs. May Wells
Nusbaum, Mrs.
Hermien D.
Nyman, Dr. John Egbert
Oberfelder, Walter S.
Obermaier, John A.
O'Brien, Miss Janet
O'Connell, Edmund
Daniel
Offield, Wrigley
Oglesbee, Nathan H.
O'Keefe, William F.
Okner, Dr. Henry B.
Olaison, Miss Eleanor O.
Oldefest, Edward G.
Oleson, Wrisley B.
Olin, Carl E.
Oliver, Mrs. Paul
Olsen, Miss Agnes J.
Olsen, Mrs. Arthur O.
O'Neil, Dr. Owen
O'Neill, J. W.
Onofrio, Mrs. Michael J.
Ooms, Casper William
Opeka, Frank M.
Oppenheimer, Mrs.
Harry D.
Oppenheimer, Seymour
Orndoff, Dr. Benjamin H.
O'Rourke, Albert
O'Rourke, Mrs. Harry J.
Orr, Mrs. Robert C.
Orr, Thomas C.
Ortmayer, Dr. Marie
Oser, Nelson A.
Osgood, Mrs. Gilbert H.
Ostrom, Mrs. J. Augustus
O'Sullivan, James J.
Otis, Joseph E.
Otis, Joseph Edward, Jr.
Otis, Peter Witherspoon
Otis, Stuart Huntington
O'Toole, Donald
Owens, Harry J.
Paasche, Jens A.
Packard, Dr. Rollo K.
Paepcke, Walter P.
Page, John W.
Pain, F. W.
Pallasch, Dr. Gervaise P.
Palm, Felix
Palmer, James L.
Palmgren, Mrs.
Charles A.
Pandaleon, Costa A.
Pardee, Harvey S.
Pardridge, Mrs. E. W.
Park, R. E.
Parker, Miss Edith P.

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- Parker, Norman S.
Parker, Troy L.
Parks, C. R.
Parmelee, Dr. A. H.
Parry, Mrs. Norman G.
Partridge, Lloyd C.
Paschen, Mrs. Henry
Pashkow, A. D.
Patchen, Dr. Paul J.
Patterson, Grier D.
Patterson, R. Curtis
Patterson, Thomas A.
Patton, A. E.
Patzelt, Miss Janet
Peabody, Howard B.
Peabody, Miss Susan W.
Peacock, Charles D., III
Pearl, Allen S.
Pearse, Mrs. Langdon
Pearson, George
 Albert, Jr.
Peirce, Albert E.
Pellicore, Dr.
 Raymond J.
Pencik, Jan M.
Percy, Dr. Mortimer
 Nelson
Perel, Harry Z.
Perlman, Daniel
Perry, Mrs. I. Newton
Peters, Harry A.
Petersen, Jurgen
Petersen, William O.
Peterson, Mrs.
 Elizabeth F.
Pfaelzer, Miss
 Elizabeth W.
Pflock, Dr. John J.
Phillips, Dr. Herbert
 Morrow
Phoenix, George E.
Pick, Frederic G.
Pierce, J. Norman
Pierce, Paul, Jr.
Pierson, Joseph B.
Pillsbury, Mrs. C. S.
Pink, Mrs. Ira M.
Pirie, Mrs. John T.
Plapp, Miss Doris A.
Platt, Edward Vilas
Platt, Mrs. Robert S.
Plochman, Cordelia G.
Plummer, Comer
Pobloske, Albert C.
Podell, Mrs. Beatrice
 Hayes
Pollak, Charles A.
Polyak, Stephen, Jr.
Poor, Mrs. Fred A.
Pope, Mrs. Henry, Jr.
Pope, Herbert
- Pope, John W.
Poppenhagen, Henry J.
Porter, Edward C.
Porter, Mrs. Frank S.
Porter, Henry H.
Porter, L. W.
Porter, Louis
Porter, Mrs. Sidney S.
Post, Mrs. Philip Sidney
Pottenger, William A.
Potts, Albert W.
Poulson, Mrs. Clara L.
Powills, Michael A.
Prall, Bert R.
Pray, Max
Price, John McC.
Primley, Walter S.
Prince, Mrs. Arthur C.
Prince, Harry
Prince, Rev. Herbert W.
Prince, Leonard M.
Pritchard, Richard E.
Probst, Marvin G.
Proxmire, Dr.
 Theodore Stanley
Prussing, Mrs. R. E.
Pucci, Lawrence
Purcell, Joseph D.
Purcey, Victor W.
Puttkammer, E. W.
- Quick, Miss Hattiemae
Quigley, Jack A.
- Racheff, Ivan
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Radovich, Miss Bessie
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Raftree, Miss Julia M.
Railton, Miss Frances
Ramis, Leon Lipman
Randall, Rev. Edwin J.
Randall, Irving
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Rankin, Miss Jessie H.
Rathje, Frank C.
Ratner, Walter B.
Ray, Harold R.
Raymond, Mrs.
 Howard D.
Reach, Benjamin F.
Reals, Miss Lucile
 Farnsworth, Jr.
Redfield, William M.
Reed, Guy E.
Reed, John S.
Reed, Mrs. Lila H.
Reed, Mrs. Philip L.
Regan, Mrs. Robert G.
Regenstein, Joseph, Jr.
Regnery, Frederick L.
- Reid, Mrs. Bryan
Reid, Robert H.
Reilly, Vincent P.
Renaldi, George J.
Renn, Mrs. John A.
Renshaw, Mrs. Charles
Re Qua, Mrs. Charles
 Howard, Jr.
Re Qua, Haven A.
Rew, Mrs. Irwin
Reynolds, Mrs.
 G. William
Reynolds, Harold F.
Rhodes, Charles M.
Rice, Mrs. Charles R.
Rice, Laurence A.
Rich, Elmer
Rich, Harry
Richards, Mrs. Bartlett
Richards, Donald
Richards, Marcus D.
Richardson, George A.
Richardson, Guy A.
Richter, Mrs. Adelyn W.
Rieser, Leonard M.
Rietz, Elmer W.
Rietz, Walter H.
Rinaldo, Philip S., Jr.
Rindfleisch, Keith P.
Ripstra, J. Henri
Risdon, Russell R.
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Rittenhouse, Charles J.
Roberts, John M.
Roberts, William
 Munsell
Robinson, Edward
Robinson,
 Theodore W., Jr.
Robinson, William S.
Roderick, Solomon P.
Rodgers, Dr. David C.
Rodman, Thomas
 Clifford
Rodman, Mrs. Hugh
Roebuck, Mrs. A. S.
Roehling, Mrs. Otto G.
Roehm, George R.
Rogers, Miss Annie T.
Rogers, Lester C.
Roggenkamp, John
Rolnick, Dr. Harry C.
Romane, Julian J. (Pat)
Root, John W.
Rosborough, Dr. Paul A.
Rose, Miss Evelyn
Rosen, M. R.
Rosenbaum, Mrs.
 Edwin S.
Rosenbaum, Mrs.
 Harold A.

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Rosenfeld, M. J.
 Rosenstone, Nathan
 Rosenstone, Samuel
 Rosenthal, M. A.
 Rosenthal, Samuel R.
 Rosenwald, Richard M.
 Ross, Earl
 Ross, Robert C.
 Ross, Mrs. Robert E.
 Ross, Thompson
 Ross, Walter S.
 Roth, Mrs. Margit
 Hochsinger
 Rothacker, Watterson R.
 Rothschild, George
 William
 Rothschild,
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 Treffeisen, Gustave
 Tresley, Dr. Ira J.
 Triggs, Warren
 Trimarco, Ralph R.
 Triner, Joseph
 Troeger, Louis P.
 Trom, Jacob
 Trumbull, William M.
 Tubutis, Walter Stanley, Jr.
 Turek, A. O.
 Turgrimson, Charles D.
 Turner, Dr. Herbert A.
 Turner, Oliver S.
 Tyler, Mrs. Ivan L.
 Tyrrell, Miss Frances

ANNUAL MEMBERS (CONTINUED)

- Ughetti, John B.
Uhlmann, Richard F.
Ullmann, S. E.
Ultsch, W. Lewis
Urbain, Leon F.
Urban, Andrew
Uretz, Daniel A.
Urnes, Dr. M. P.
Ushijima, Mrs. Ruth
Uslander, Richard
Utz, Miss Martha
- Vail, Mrs. Daniel M.
Vail, Donald P.
Vail, J. Dean, Jr.
Vale, Mrs. Murray
Van Buskirk, M. G.
Vanderkloot, Dr. Albert
Vander Kloot,
Nicholas J.
Vander Ploeg, Frank
Van Deventer,
William E.
Van Dyk, S. A.
Van Etten, Floyd G.
Van Gerpen, George
Van Kampen, A. H.
Van Kirk, Mrs. R. D.
Van Moss, J. H., Jr.
Van Natta, V. R.
Van Nice, Errett
Van Stanten, James
Van Schaick, Mrs.
Ethel R.
Van Swearingen, Guy H.
Varley, John S.
Varty, Leo G.
Vasalle, Master David
Vasalle, Rudolph A.
Vaughan, A. W., Jr.
Vaughan, Norman
Vaughn, Wilbert T.
Velvel, Charles
Velvel, H. R.
Venema, M. P.
Venrick, Mrs. Charles F.
Verhaag, Dr. Joseph E.
Ver Nooy, Miss Winifred
Vetter, Paul G.
Vick, Maurice B.
Victorine, Vernon E.
Vihon, Charles H.
Vilsoet, William
Vogelback, Mrs.
William E.
Voigt, Mrs. Wilbur R.
Vollmer, Karl F.
Von Gehr, George
von Leden, Dr. Hans
Voytech, Charles F.
Vyse, T. A. E.
- Wach, Dr. Edward C.
Wachter, Frederick J.
Wacker, Frederick G., Jr.
Wagner, Mrs. David H.
Wagner, John A.
Wahl, Orlin I.
Wakefield, Dr.
Ernest H.
Waldie, Benjamin D.
Waldman, Dr. Albert G.
Waldner, Arthur L.
Waldo, C. Ives, Jr.
Walgren, Lawrence C.
Walker, Dr. Alfred O.
Walker, Frank R.
Walker, Mrs. India A.
Walker, Reno R.
Walker, Ward
Walker, Wendell
Wall, Dr. Frank J.
Wallenstein, Sidney
Waller, Percy H.
Waller, William, Jr.
Wallerstein, David B.
Wallgren, Eric M.
Walling, Mrs.
Willoughby G.
Wallingford, Donald H.
Walsh, Donald J.
Walters, Gary G.
Waltman, C. E.
Walz, John W.
Wanger, David E., Jr.
Wanzer, H. Stanley
Warady, Dr. Seymore C.
Ward, Sydney J.
Warde, Frederick A.
Wardwell, H. F.
Ware, Mrs. Robert R.
Ware, Mrs. Thomas M.
Ware, Willis C.
Warman, Winfield C.
Warner, Mason
Warner, Peter B.
Warshawsky, Roy I.
Warton, Frank R.
Washburn, Dr.
Kenneth C.
Wasson, Mrs. Isabel B.
Wasson, Theron
Waterfield, John R.
Waterman, Mrs. Alex H.
Watkins, William A. P.
Watling, John
Watson, D. R.
Watt, Andrew J.
Watt, Howard D.
Watt, Richard F.
Watts, Amos H.
Watts, G. W.
Waud, Morrison
- Weatherby, George W.
Weathers, Everett A.
Weaver, Robert P.
Webb, Dr. Edward F.
Weber, James E.
Weber, John J.
Weber, Miss Laura M.
Weber, Warren J.
Webster, Dr. Augusta
Webster, Frederick F.
Webster, N. C.
Weeks, Harrison S.
Weeks, Kenneth L.
Weidert, William C.
Weigle, Mrs. Maurice
Weil, Mrs. Carl H.
Weil, Joseph M.
Weiner, Aaron B.
Weiner, Charles
Weinman, Philip A.
Weinress, S. J.
Weinstein, Harold
Weintroub, Benjamin
Weisbrod, Maxfield
Weiss, Louis J.
Weiss, Norman L.
Wells, D. P.
Wells, Mrs. John E.
Welsh, Vernon M.
Wendell, F. Lee H.
Wendorf, Herman
Wendt, George B.
Wenner, A. T.
Wenninger, William C.
Werner, Miss
Theresa M.
Werrenrath, Reinald, Jr.
Wessling, Richard
West, James D.
West, Richard H.
West, Thomas F., Jr.
Westbrook, Charles H.
Westley, Richard O.
Wetherell, Warren
Wetmore, Horace O.
Weyforth, B. Stuart, Jr.
Whall, Arthur L.
Wheary, Warren
Wheaton, David
Wheeler, Mrs. Seymour
Wheeler, W. L.
Whipple, Charles J.
Whipple, Gaylord C.
White, George H.
White, John G.
White, Marshall
White, Mrs. Nelson C.
White, Dr. Philip C.
White, Philip M.
Whitelock, John B.
Whitney, Jack M., II

ANNUAL MEMBERS (CONTINUED)

| | | |
|-----------------------------|--------------------------|--------------------------|
| Whitney, Lafeton | Wirth, J. W. | Wulf, Miss Lydia |
| Wible, R. R. | Wise, John P. | Wyatt, Harry N. |
| Wickersham, Mrs. Lucille | Wise, Richard H. | Wybel, L. E. |
| Wielgus, John | Wiseman, William P. | Yager, Richard Sidney |
| Wier, Grant H. | Witherell, James | Yamada, Shigeo |
| Wiggins, Kenneth M. | Witte, Lester | Yarnall, Frank H. |
| Wilander, Mrs. Connie | Wittmann, Bernard H. | Yates, P. L. |
| Wilby, A. C. | Wlocholl, Arthur | Yates, T. L. |
| Wilder, E. P., Jr. | Wojnarowsky, Dr. | Yavitz, Sidney M. |
| Wiles, Bradford | Emilia | Yellin, Morris |
| Wiles, Mrs. Russell | Wojteczko, Stanley | Yeoman, George W. |
| Wilhelm, Dr. Emanuel C. | Wolbach, Murray, Jr. | Yesnick, Dr. Louis |
| Wilhite, James A. | Wolf, Albert M. | Ylvsaker, L. |
| Wilkes, Mrs. R. M. | Wolf, C. W. | Yntema, Dr. Leonard F. |
| Willard, Nelson W. | Wolf, Morris E. | Yohe, C. Lloyd |
| Willett, Howard L., Jr. | Wood, A. E. | Yonkers, Edward H. |
| Williams, Albert D. | Wood, Alexander M. | Young, C. S. |
| Williams, Albert W. | Wood, Arthur M. | Young, Dr. Donald R. |
| Williams, Bennett | Wood, C. A. | Young, George B. |
| Williams, Harry J. | Wood, Harold F. | Young, J. L. |
| Williams, R. Arthur | Wood, Kenward T. | Young, Rollin R. |
| Williams, Robert J. | Wood, Philip J. | Young, William T., Jr. |
| Willis, George H. | Wood, Truman | Youngberg, Arthur C. |
| Willis, Ivan L. | Wood, William A. | Youngren, W. W. |
| Wilson, Allen | Wood, Mrs. William J. | Yust, Walter |
| Wilson, Allen B. | Woodall, Lloyd | Zadek, Milton |
| Wilson, Christopher W., Jr. | Woods, Dr. A. W. | Zatz, Sidney R. |
| Wilson, David M. | Woodson, William T. | Zeitlin, Samuel E. |
| Wilson, E. W. | Woolard, Francis C. | Zelinsky, Mrs. S. F. |
| Wilson, Harold E. | Woollett, Mrs. Jean | Zeller, Charles B. |
| Wiltsee, Herbert | Woolpy, Max | Zeller, Joseph C. |
| Wiman, Mrs. Charles Deere | Workman, S. L. | Zimmerman, Austin M. |
| Windchy, Mrs. Frederick O. | Works, Nelson C., Jr. | Zimmerman, Carl |
| Winkenweder, V. O. | Worthington, La Grange | Zimmerman, Dr. Harold W. |
| Winkler, Edward | Worthy, James C. | Zimmerman, Otto H. |
| Winsberg, Herbert H. | Wray, Franklin C. | Zimmermann, Frank O. |
| Winston, Farwell | Wreath, Robert L. | Zimmermann, Mrs. P. T. |
| Winter, Mrs. Gibson | Wright, C. G. | Zitzewitz, Arthur F. |
| Winter, Munroe A. | Wright, Dr. F. Howell | Zitzewitz, Mrs. W. R. |
| Winterbotham, John R. | Wright, George L. | Ziv, Harry M. |
| | Wright, Miss Margaret J. | Zoll, William F. |
| | Wrightson, William F. | |

DECEASED 1958

| | | |
|----------------------|-----------------------|------------------------|
| Brandt, Fred T. | Lesch, Mrs. Isabel | Smolka, Oscar J. |
| Cook, Wallace L. | Catharine | Stange, Howard W. |
| Cooke, William H. | Linthicum, J. Francis | Talbot, Mrs. Eugene S. |
| Ellis, Erle M. | McAuliffe, J. D. | Venetucci, Pasquale |
| Galleher, Maurice D. | McGowen, E. J. | Wadsworth, Charles |
| Grice, John E. | Moorman, Charles L. | Weeks, Arthur G. |
| Jackson, W. H. | Mork, P. R. | Weill, Leonard D. |
| Krafft, Walter A. | Osgood, Roy C. | Wenholz, Walter W. |
| | Senear, Dr. F. E. | Weymouth, Ralph E. |
| | Sloan, William F. | Yates, John E. |

Articles of Incorporation

STATE OF ILLINOIS

DEPARTMENT OF STATE

WILLIAM H. HINRICHSSEN, *Secretary of State*

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETING:

Whereas, a Certificate duly signed and acknowledged having been filed in the office of the Secretary of State, on the 16th day of September, A.D. 1893, for the organization of the COLUMBIAN MUSEUM OF CHICAGO, under and in accordance with the provisions of "An Act Concerning Corporations," approved April 18, 1872, and in force July 1, 1872, and all acts amendatory thereof, a copy of which certificate is hereto attached.

Now, therefore, I, William H. Hinrichsen, Secretary of State of the State of Illinois, by virtue of the powers and duties vested in me by law, do hereby certify that the said COLUMBIAN MUSEUM OF CHICAGO is a legally organized Corporation under the laws of this State.

In Testimony Whereof, I hereto set my hand and cause to be affixed the Great Seal of State. Done at the City of Springfield, this 16th day of September, in the year of our Lord one thousand eight hundred and ninety-three, and of the Independence of the United States the one hundred and eighteenth.

W. H. HINRICHSSEN,

Secretary of State.

[SEAL]

TO HON. WILLIAM H. HINRICHSSEN,

SECRETARY OF STATE:

SIR:

We, the undersigned citizens of the United States, propose to form a corporation under an act of the General Assembly of the State of Illinois, entitled "An Act Concerning Corporations," approved April 18, 1872, and all acts amendatory thereof; and that for the purposes of such organization we hereby state as follows, to-wit:

1. The name of such corporation is the "COLUMBIAN MUSEUM OF CHICAGO."

2. The object for which it is formed is for the accumulation and dissemination of knowledge, and the preservation and exhibition of objects illustrating Art, Archaeology, Science and History.

3. The management of the aforesaid museum shall be vested in a Board of FIFTEEN (15) TRUSTEES, five of whom are to be elected every year.

4. The following named persons are hereby selected as the Trustees for the first year of its corporate existence:

Edward E. Ayer, Charles B. Farwell, George E. Adams, George R. Davis, Charles L. Hutchinson, Daniel H. Burnham, John A. Roche, M. C. Bullock, Emil G. Hirsch, James W. Ellsworth, Allison V. Armour, O. F. Aldis, Edwin Walker, John C. Black and Frank W. Gunsaulus.

5. The location of the Museum is in the City of Chicago, County of Cook, and State of Illinois.

(Signed)

George E. Adams, C. B. Farwell, Sidney C. Eastman, F. W. Putnam, Robert McCurdy, Andrew Peterson, L. J. Gage, Charles L. Hutchinson, Ebenezer

Buckingham, Andrew McNally, Edward E. Ayer, John M. Clark, Herman H. Kohlsaat, George Schneider, Henry H. Getty, William R. Harper, Franklin H. Head, E. G. Keith, J. Irving Pearce, Azel F. Hatch, Henry Wade Rogers, Thomas B. Bryan, L. Z. Leiter, A. C. Bartlett, A. A. Sprague, A. C. McClurg, James W. Scott, Geo. F. Bissell, John R. Walsh, Chas. Fitzsimmons, John A. Roche, E. B. McCagg, Owen F. Aldis, Ferdinand W. Peck, James H. Dole, Joseph Stockton, Edward B. Butler, John McConnell, R. A. Waller, H. C. Chatfield-Taylor, A. Crawford, Wm. Sooy Smith, P. S. Peterson, John C. Black, Jno. J. Mitchell, C. F. Gunther, George R. Davis, Stephen A. Forbes, Robert W. Patterson, Jr., M. C. Bullock, Edwin Walker, George M. Pullman, William E. Curtis, James W. Ellsworth, William E. Hale, Wm. T. Baker, Martin A. Ryerson, Huntington W. Jackson, N. B. Ream, Norman Williams, Melville E. Stone, Bryan Lathrop, Eliphalet W. Blatchford, Philip D. Armour.

STATE OF ILLINOIS }
COOK COUNTY } ss.

I, G. R. MITCHELL, a NOTARY PUBLIC in and for said County, do hereby certify that the foregoing petitioners personally appeared before me and acknowledged severally that they signed the foregoing petition as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this 14th day of September, 1893.

G. R. MITCHELL,

[SEAL]

NOTARY PUBLIC, COOK COUNTY, ILL.

CHANGE IN ARTICLE 1

Pursuant to a resolution passed at a meeting of the corporate members held the 25th day of June, 1894, the name of the COLUMBIAN MUSEUM was changed to FIELD COLUMBIAN MUSEUM. A certificate to this effect was filed June 26, 1894, in the office of the Secretary of State for Illinois.

CHANGE IN ARTICLE 1

Pursuant to a resolution passed at a meeting of the corporate members held the 8th day of November, 1905, the name of the FIELD COLUMBIAN MUSEUM was changed to FIELD MUSEUM OF NATURAL HISTORY. A certificate to this effect was filed November 10, 1905, in the office of the Secretary of State for Illinois.

CHANGE IN ARTICLE 3

Pursuant to a resolution passed at a meeting of the corporate members held the 10th day of May, 1920, the management of FIELD MUSEUM OF NATURAL HISTORY shall be invested in a Board of TWENTY-ONE (21) TRUSTEES, who shall be elected in such manner and for such time and term of office as may be provided for by the By-Laws. A certificate to this effect was filed May 21, 1920, in the office of the Secretary of State for Illinois.

CHANGE IN ARTICLE 1

Pursuant to a resolution passed at a meeting of the corporate members held the 15th day of November, 1943, the name of FIELD MUSEUM OF NATURAL HISTORY was changed to CHICAGO NATURAL HISTORY MUSEUM. A certificate to this effect was filed November 23, 1943, in the office of the Secretary of State for Illinois.

Amended By-Laws

DECEMBER 1958

ARTICLE I

MEMBERS

SECTION 1. Members shall be of twelve classes, Corporate Members, Honorary Members, Patrons, Corresponding Members, Benefactors, Contributors, Life Members, Non-Resident Life Members, Associate Members, Non-Resident Associate Members, Sustaining Members, and Annual Members.

SECTION 2. The Corporate Members shall consist of the persons named in the articles of incorporation, and of such other persons as shall be chosen from time to time by the Board of Trustees at any of its meetings, upon the recommendation of the Executive Committee; provided, that such person named in the articles of incorporation shall, within ninety days from the adoption of these By-Laws, and persons hereafter chosen as Corporate Members shall, within ninety days of their election, pay into the treasury the sum of Twenty Dollars (\$20.00) or more. Corporate Members becoming Life Members, Patrons or Honorary Members shall be exempt from dues. Annual meetings of said Corporate Members shall be held at the same place and on the same day that the annual meeting of the Board of Trustees is held.

SECTION 3. Honorary Members shall be chosen by the Board from among persons who have rendered eminent service to science, and only upon unanimous nomination of the Executive Committee. They shall be exempt from all dues.

SECTION 4. Patrons shall be chosen by the Board upon recommendation of the Executive Committee from among persons who have rendered eminent service to the Museum. They shall be exempt from all dues, and, by virtue of their election as Patrons, shall also be Corporate Members.

SECTION 5. Any person contributing or devising the sum of One Hundred Thousand Dollars (\$100,000.00) in cash, or securities, or property to the funds of the Museum, may be elected a Benefactor of the Museum.

SECTION 6. Corresponding Members shall be chosen by the Board from among scientists or patrons of science residing in foreign countries, who render important service to the Museum. They shall be elected by the Board of Trustees at any of its meetings. They shall be exempt from all dues and shall enjoy all courtesies of the Museum.

SECTION 7. Any person contributing to the Museum One Thousand Dollars (\$1,000.00) or more in cash, securities, or material, may be elected a Contributor of the Museum. Contributors shall be exempt from all dues and shall enjoy all courtesies of the Museum.

SECTION 8. Any person paying into the treasury the sum of Five Hundred Dollars (\$500.00) at any one time, shall, upon the unanimous vote of the Board, become a Life Member. Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to members of the Board of Trustees. Any person residing fifty miles or more from the city of Chicago, paying into the treasury the sum of One Hundred Dollars (\$100.00) at any one time, shall, upon the unanimous vote of the Board, become a Non-Resident Life Member. Non-Resident Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to members of the Board of Trustees.

SECTION 9. Any person paying into the treasury of the Museum the sum of One Hundred Dollars (\$100.00) at any one time, shall, upon the vote of the Board,

become an Associate Member. Associate Members shall be exempt from all dues, and shall be entitled to tickets admitting Member and members of family, including non-resident home guests; all publications of the Museum issued during the period of their membership, if so desired; reserved seats for all lectures and entertainments under the auspices of the Museum, provided reservation is requested in advance; and admission of holder of membership and accompanying party to all special exhibits and Museum functions day or evening. Any person residing fifty miles or more from the city of Chicago, paying into the treasury the sum of Fifty Dollars (\$50.00) at any one time, shall, upon the unanimous vote of the Board, become a Non-Resident Associate Member. Non-Resident Associate Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to Associate Members.

SECTION 10. Sustaining Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of Twenty-five Dollars (\$25.00), payable within thirty days after notice of election and within thirty days after each recurring annual date. This Sustaining Membership entitles the Member to free admission for the Member and family to the Museum on any day, the Annual Report and such other Museum documents or publications issued during the period of their membership as may be requested in writing. When a Sustaining Member has paid the annual fee of \$25.00 for six years, such Member shall be entitled to become an Associate Member.

SECTION 11. Annual Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of Ten Dollars (\$10.00), payable within thirty days after each recurring annual date. An Annual Membership shall entitle the Member to a card of admission for the Member and family during all hours when the Museum is open to the public, and free admission for the Member and family to all Museum lectures and entertainments. This membership will also entitle the holder to the courtesies of the membership privileges of every museum of note in the United States and Canada, so long as the existing system of co-operative interchange of membership tickets shall be maintained, including tickets for any lectures given under the auspices of any of the museums during a visit to the cities in which the co-operative museums are located.

SECTION 12. All membership fees, excepting Sustaining and Annual, shall hereafter be applied to a permanent Membership Endowment Fund, the interest only of which shall be applied for the use of the Museum as the Board of Trustees may order.

ARTICLE II

BOARD OF TRUSTEES

SECTION 1. The Board of Trustees shall consist of twenty-one members. The respective members of the Board now in office, and those who shall hereafter be elected, shall hold office during life. Vacancies occurring in the Board shall be filled at a regular meeting of the Board, upon the nomination of the Executive Committee made at a preceding regular meeting of the Board, by a majority vote of the members of the Board present.

SECTION 2. Regular meetings of the Board shall be held on the third Monday of the month. Special meetings may be called at any time by the President, and shall be called by the Secretary upon the written request of three Trustees. Five Trustees shall constitute a quorum, except for the election of officers or the adoption of the Annual Budget, when seven Trustees shall be required, but meetings may be adjourned by any less number from day to day, or to a day fixed, previous to the next regular meeting.

SECTION 3. Reasonable written notice, designating the time and place of holding meetings, shall be given by the Secretary.

ARTICLE III

HONORARY TRUSTEES

SECTION 1. As a mark of respect, and in appreciation of services performed for the Institution, any Trustee who by reason of inability, on account of change

of residence, or for other cause or from indisposition to serve longer in such capacity shall resign his place upon the Board, may be elected, by a majority of those present at any regular meeting of the Board, an Honorary Trustee for life. Such Honorary Trustee will receive notice of all meetings of the Board of Trustees, whether regular or special, and will be expected to be present at all such meetings and participate in the deliberations thereof, but an Honorary Trustee shall not have the right to vote.

ARTICLE IV

OFFICERS

SECTION 1. The officers shall be a President, a First Vice-President, a Second Vice-President, a Third Vice-President, a Secretary, an Assistant Secretary and a Treasurer. They shall be chosen by ballot by the Board of Trustees, a majority of those present and voting being necessary to elect. The President, the First Vice-President, the Second Vice-President, and the Third Vice-President shall be chosen from among the members of the Board of Trustees. The meeting for the election of officers shall be held on the third Monday of January of each year, and shall be called the Annual Meeting.

SECTION 2. The officers shall hold office for one year, or until their successors are elected and qualified, but any officer may be removed at any regular meeting of the Board of Trustees by a vote of two-thirds of all the members of the Board. Vacancies in any office may be filled by the Board at any meeting.

SECTION 3. The officers shall perform such duties as ordinarily appertain to their respective offices, and such as shall be prescribed by the By-Laws, or designated from time to time by the Board of Trustees.

ARTICLE V

THE TREASURER

SECTION 1. The Treasurer shall be custodian of the funds of the Corporation, except as hereinafter provided. He shall make disbursements only upon warrants, signed by such officer, or officers, or other persons as the Board of Trustees may from time to time designate.

SECTION 2. The securities and muniments of title belonging to the Corporation shall be placed in the custody of some Trust Company of Chicago to be designated by the Board of Trustees, which Trust Company shall collect the income and principal of said securities as the same become due, and pay same to the Treasurer, except as hereinafter provided. Said Trust Company shall allow access to and deliver any or all securities or muniments of title to the joint order of the following officers, namely: the President or one of the Vice-Presidents, jointly with the Chairman, or one of the Vice-Chairmen, of the Finance Committee of the Museum. The President or any one of the Vice-Presidents, jointly with either the Chairman or any one of the other members of the Finance Committee, are authorized and empowered (a) to sell, assign and transfer as a whole or in part the securities owned by or registered in the name of the Chicago Natural History Museum, and, for that purpose, to endorse certificates in blank or to a named person, appoint one or more attorneys, and execute such other instruments as may be necessary, and (b) to cause any securities belonging to this Corporation now, or acquired in the future, to be held or registered in the name or names of a nominee or nominees designated by them.

SECTION 3. The Treasurer shall give bond in such amount, and with such sureties as shall be approved by the Board of Trustees.

SECTION 4. The Harris Trust and Savings Bank shall be custodian of "The N. W. Harris Public School Extension of the Chicago Natural History Museum" fund. The bank shall make disbursements only upon warrants signed by such officer or officers or other persons as the Board of Trustees of the Museum may from time to time designate.

ARTICLE VI

THE DIRECTOR

SECTION 1. The Board of Trustees shall elect a Director of the Museum, who shall remain in office until his successor shall be elected. He shall have immediate charge and supervision of the Museum, and shall control the operations of the Institution, subject to the authority of the Board of Trustees and its Committees. The Director shall be the official medium of communication between the Board, or its Committees, and the scientific staff and maintenance force.

SECTION 2. There shall be four scientific Departments of the Museum—Anthropology, Botany, Geology, and Zoology—each under the charge of a Chief Curator, subject to the authority of the Director. The Chief Curators shall be appointed by the Board upon the recommendation of the Director, and shall serve during the pleasure of the Board. Subordinate staff officers in the scientific Departments shall be appointed and removed by the Director upon the recommendation of the Chief Curators of the respective Departments. The Director shall have authority to employ and remove all other employees of the Museum.

SECTION 3. The Director shall make report to the Board at each regular meeting, recounting the operations of the Museum for the previous month. At the Annual Meeting, the Director shall make an Annual Report, reviewing the work for the previous year, which Annual Report shall be published in pamphlet form for the information of the Trustees and Members, and for free distribution in such number as the Board may direct.

ARTICLE VII

THE AUDITOR

SECTION 1. The Board shall appoint an Auditor, who shall hold his office during the pleasure of the Board. He shall keep proper books of account, setting forth the financial condition and transactions of the Corporation, and of the Museum, and report thereon at each regular meeting, and at such other times as may be required by the Board. He shall certify to the correctness of all bills rendered for the expenditure of the money of the Corporation.

ARTICLE VIII

COMMITTEES

SECTION 1. There shall be five Committees, as follows: Finance, Building, Auditing, Pension, and Executive.

SECTION 2. The Finance Committee shall consist of not less than five or more than seven members, the Auditing and Pension Committees shall each consist of three members, and the Building Committee shall consist of five members. All members of these four Committees shall be elected by ballot by the Board at the Annual Meeting, and shall hold office for one year, and until their successors are elected and qualified. In electing the members of these Committees, the Board shall designate the Chairman and Vice-Chairman by the order in which the members are named in the respective Committee; the first member named shall be Chairman, the second named the Vice-Chairman, and the third named, Second Vice-Chairman, succession to the Chairmanship being in this order in the event of the absence or disability of the Chairman.

SECTION 3. The Executive Committee shall consist of the President of the Board, the Chairman of the Finance Committee, the Chairman of the Building Committee, the Chairman of the Auditing Committee, the Chairman of the Pension Committee, and three other members of the Board to be elected by ballot at the Annual Meeting.

SECTION 4. Four members shall constitute a quorum of the Executive Committee, and in all standing Committees two members shall constitute a quorum. In the event that, owing to the absence or inability of members, a quorum of the regularly elected members cannot be present at any meeting of any Committee, then the Chairman thereof, or his successor, as herein provided, may summon any members of the Board of Trustees to act in place of the absentee.

SECTION 5. The Finance Committee shall have supervision of investing the endowment and other funds of the Corporation, and the care of such real estate as may become its property. It shall have authority to make and alter investments from time to time, reporting its actions to the Board of Trustees. The Finance Committee is fully authorized to cause any funds or investments of the Corporation to be made payable to bearer, and it is further authorized to cause real estate of the Corporation, its funds and investments, to be held or registered in the name of a nominee selected by it.

SECTION 6. The Building Committee shall have supervision of the construction, reconstruction, and extension of any and all buildings used for Museum purposes.

SECTION 7. The Executive Committee shall be called together from time to time as the Chairman may consider necessary, or as he may be requested to do by three members of the Committee, to act upon such matters affecting the administration of the Museum as cannot await consideration at the Regular Monthly Meetings of the Board of Trustees. It shall, before the beginning of each fiscal year, prepare and submit to the Board an itemized Budget, setting forth the probable receipts from all sources for the ensuing year, and make recommendations as to the expenditures which should be made for routine maintenance and fixed charges. Upon the adoption of the Budget by the Board, the expenditures stated are authorized.

SECTION 8. The Auditing Committee shall have supervision over all accounting and bookkeeping, and full control of the financial records. It shall cause the same, once each year, or oftener, to be examined by an expert individual or firm, and shall transmit the report of such expert individual or firm to the Board at the next ensuing regular meeting after such examination shall have taken place.

SECTION 9. The Pension Committee shall determine by such means and processes as shall be established by the Board of Trustees to whom and in what amount the Pension Fund shall be distributed. These determinations or findings shall be subject to the approval of the Board of Trustees.

SECTION 10. The Chairman of each Committee shall report the acts and proceedings thereof at the next ensuing regular meeting of the Board.

SECTION 11. The President shall be ex-officio a member of all Committees and Chairman of the Executive Committee. Vacancies occurring in any Committee may be filled by ballot at any regular meeting of the Board.

ARTICLE IX

NOMINATING COMMITTEE

SECTION 1. At the November meeting of the Board each year, a Nominating Committee of three shall be chosen by lot. Said Committee shall make nominations for membership of the Finance Committee, the Building Committee, the Auditing Committee, and the Pension Committee, and for three members of the Executive Committee, from among the Trustees, to be submitted at the ensuing December meeting and voted upon at the following Annual Meeting in January.

ARTICLE X

SECTION 1. Whenever the word "Museum" is employed in the By-Laws of the Corporation, it shall be taken to mean the building in which the Museum as an Institution is located and operated, the material exhibited, the material in study collections, or in storage, furniture, fixtures, cases, tools, records, books, and all appurtenances of the Institution and the workings, researches, installations, expenditures, field work, laboratories, library, publications, lecture courses, and all scientific and maintenance activities.

SECTION 2. The By-Laws, and likewise the Articles of Incorporation, may be amended at any regular meeting of the Board of Trustees by a vote in favor thereof of not less than two-thirds of all the members present, provided the amendment shall have been proposed at a preceding regular meeting.





GOLDEN ANNIVERSARY YEAR
OF STANLEY FIELD AS
PRESIDENT OF THE MUSEUM



CHICAGO
NATURAL
HISTORY
MUSEUM

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ANNUAL REPORT

1959

Chicago Natural History Museum











JOHN P. WILSON

1877—1959

Member of the Board of Trustees since 1932
Member of the Executive Committee and Finance Committee

Report of the Director

to the

Board of Trustees

for the year 1959



CHICAGO NATURAL HISTORY MUSEUM

1960

PRINTED IN THE UNITED STATES OF AMERICA
BY CHICAGO NATURAL HISTORY MUSEUM PRESS

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NORTH ENTRANCE
OF
CHICAGO NATURAL HISTORY MUSEUM
(FORMERLY FIELD MUSEUM)
ROOSEVELT ROAD AND LAKE SHORE DRIVE



CHICAGO NATURAL
HISTORY MUSEUM
FOUNDED BY WARREN H. FIELD 1893

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| | STEPHEN C. SIMMS* | 1928-1937 |

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JOHN R. MILLAR, Deputy Director
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DEPARTMENT OF ANTHROPOLOGY

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GEORGE I. QUMBY, A.M., Curator, North American Archaeology and Ethnology
JOHN B. RINALDO, Ph.D., Assistant Curator, Archaeology
KENNETH STARR, Ph.D., Curator, Asiatic Archaeology and Ethnology
ROLAND W. FORCE, Ph.D., Curator, Oceanic Archaeology and Ethnology
PHILLIP H. LEWIS, M.A., Assistant Curator, Primitive Art
ALFREDO EVANGELISTA, A.B., Thomas J. Dee Fellow, Anthropology*
HOSHIEH TCHEN, Ph.D., Consultant, East Asian Collection
ALLEN S. LISS, A.B., Custodian of Collections
ALFRED LEE ROWELL, Dioramist
GUSTAF DALSTROM, Artist
WALTER BOYER, B.F.A., Ceramic Restorer
WALTER C. REESE, Preparator
VIRGINIA B. STROSS, A.B., Departmental Secretary

ROBERT J. BRAIDWOOD, Ph.D., Research Associate, Old World Prehistory
FAY-COOPER COLE, Ph.D., Sc.D., LL.D., Research Associate, Malaysian Ethnology
A. L. KROEBER, Ph.D., Research Associate, American Archaeology
J. ERIC THOMPSON, Dipl.Anth.Camb., Research Associate, Central American Archaeology

DEPARTMENT OF BOTANY

THEODOR JUST, Ph.D., Chief Curator
B. E. DAHLGREN, D.M.D., Curator Emeritus
J. FRANCIS MACBRIDE, Curator, Peruvian Botany
JOHN W. THIERET, Ph.D., Curator, Economic Botany
C. EARLE SMITH, JR., Ph.D., Associate Curator, Vascular Plants
J. S. DASTON, Sc.D., Assistant, Botany
ROBERT J. REICH, Custodian, Herbarium
EMIL SELLA, Curator of Exhibits

* resigned

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FRANK BORYCA, Technician
WALTER HUEBNER, Preparator
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EDITH M. VINCENT, A.B., Research Librarian
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ARCHIE F. WILSON, Associate, Wood Anatomy

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BERTRAM G. WOODLAND, B.Sc., Associate Curator, Petrology
HARRY E. CHANGNON, B.S., Curator of Exhibits
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HENRY U. TAYLOR, Preparator
RAINER ZANGERL, Ph.D., Curator, Fossil Reptiles
ROBERT H. DENISON, Ph.D., Curator, Fossil Fishes
WILLIAM D. TURNBULL, Assistant Curator, Fossil Mammals
DAVID TECHTER, B.S., Assistant, Fossil Vertebrates
EUGENE S. RICHARDSON, JR., Ph.D., Curator, Fossil Invertebrates
GEORGE LANGFORD, Ph.B., Curator, Fossil Plants
ORVILLE L. GILPIN, Chief Preparator, Fossils
RONALD J. LAMBERT, Preparator
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EVELYN SHAHROCH, Departmental Secretary

ERNST ANTEVS, Ph.D., Research Associate, Glacial Geology
ALBERT A. DAHLBERG, D.D.S., Research Associate, Fossil Vertebrates
ERIK N. KJELLESVIG-WAERING, B.Sc., Research Associate, Fossil Invertebrates
EVERETT C. OLSON, Ph.D., Research Associate, Fossil Vertebrates
BRYAN PATTERSON, Research Associate, Fossil Vertebrates
R. H. WHITFIELD, D.D.S., Associate, Fossil Plants
VIOLET WHITFIELD, B.A., Associate, Fossil Plants

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KARL KOOPMAN, Ph.D., Assistant Curator, Mammals
EMMET R. BLAKE, M.S., Curator, Birds
MELVIN A. TRAYLOR, JR., A.B., Associate Curator, Birds
ROBERT F. INGER, Ph.D., Curator, Amphibians and Reptiles
HYMEN MARX, B.S., Assistant, Reptiles
LOREN P. WOODS, A.B., Curator, Fishes
PEARL SONODA, Assistant, Fishes
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FRITZ HAAS, Ph.D., Curator Emeritus, Lower Invertebrates
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SOPHIE ANDRIS, Osteologist
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MARIO VILLA, Assistant Taxidermist
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RUTH ANDRIS, Departmental Secretary

GREGORIO BONDAR, Research Associate, Insects
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CH'ENG-CHAO LIU, Ph.D., Research Associate, Reptiles
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R. M. STRONG, Ph.D., Research Associate, Anatomy
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ALEX K. WYATT, Research Associate, Insects
LUIS DE LA TORRE, M.S., Associate, Mammals
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WALDEMAR MEISTER, M.D., Associate, Anatomy
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HARRY G. NELSON, B.Sc., Associate, Insects
KARL PLATH, Associate, Birds
DIOSCORO S. RABOR, M.S., Associate, Birds

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ELLEN T. SMITH, Associate, Birds
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GEORG HAAS, Ph.D., Field Associate
FREDERICK J. MEDEM, Sc.D., Field Associate

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BERTHA M. PARKER, M.S., Research Associate

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Administration

META P. HOWELL, B.L.S., Librarian
M. EILEEN ROCOURT, M.A., Associate Librarian
MARIAN CHRISTENSEN, A.A., Secretary

Classification and Cataloguing

WILLIAM P. FAWCETT, B.A. ¶
ANDRÉ NITECKI, B.A.*
BORIS IVANOV, Dipl.Law

Reference

EUGENIA BERNOFF

Accessions, Binding, Stacks

GEORGE STOSIUS, M.E.
CONSTANTIN GLOBALA, Dipl.Eng.

¶ on leave

* resigned

ASSOCIATE EDITORS OF MUSEUM PUBLICATIONS

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MARTHA H. MULLEN, B.A., Assistant

HELEN ATKINSON MACMINN, A.M., Miscellaneous Publications

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H. B. HARTE

PATRICIA MCAFEE HUFFMAN, B.A., Associate*

MARILYN JINDRICH, B.S., Assistant

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MARY H. RYAN, Assistant

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RAYMOND A. N. GOMES, Assistant Recorder

HILDA NORDLAND, Assistant Recorder

JEANNETTE FORSTER, Assistant Recorder

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MARION K. HOFFMANN, Auditor

ELEANOR SHEFFNER, Bookkeeper

ROBERT E. BRUCE, Purchasing Agent

THE BOOK SHOP

JANE COMISKEY, B.A., Manager

JESSIE DUDLEY, Assistant

MARION A. KRATKY, B.A., Secretary

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E. JOHN PFIFFNER, Staff Artist

MARION PAHL, B.F.A., Staff Illustrator

* resigned

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HOMER V. HOLDREN, Assistant

CLARENCE B. MITCHELL, B.A., Research Associate, Photography

DIVISION OF MOTION PICTURES

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DIVISION OF PRINTING

RAYMOND H. HALLSTEIN, SR., in charge
HAROLD M. GRUTZMACHER, Assistant

DIVISION OF MAINTENANCE

JAMES R. SHOUBA, Superintendent
GUSTAV A. NOREN, Assistant Superintendent

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WILLIAM E. LAKE, Chief Engineer
LEONARD CARRION, Assistant Chief Engineer

THE GUARD

FRANK C. JENSIK, Captain

BRILLIANT
NEW
FLOODLIGHTING
OF
WHITE-MARBLE
MUSEUM BUILDING

ON NEXT PAGE



Annual Report

of the Director

To the Trustees:

I have the honor to present a report of the operation of the Museum for the year ending December 31, 1959.

This was probably the year of greatest impact upon the people of Chicago by the Museum since its early beginnings. Chicagoans were made more aware of what the Museum is, what it does, and what it has to offer the public than ever before because there were more special events, more special exhibits, and more innovations than in previous years, and the people of Chicago responded to these attractions.

The silhouette illumination of the exterior of this white-marble building every night since June 16 along with other public buildings in the Chicago park system has drawn particular and favorable attention (see facing page and page 107). During the summer the Museum remained open to visitors a number of evenings beyond the normal hours, particularly on the evenings when public concerts were held in the Grant Park bandshell (see pages 25 and 98). Toward the end of the year, evening chamber-music concerts once a month were inaugurated in the Museum's James Simpson Theatre (see page 23).

During the period of the Pan American Games and the Festival of the Americas, the Museum presented a special exhibit of American Indian art in which the entire western hemisphere from Alaska to Patagonia was represented (see page 25). Although the basis of this exhibit consisted of specimens in the Museum's collection, pieces of

special interest from other institutions also were displayed. In November and December the centennial of the publication of Charles Darwin's *The Origin of Species* was celebrated with a special exhibit of Darwiniana in Stanley Field Hall (see page 25). In addition, many new permanent exhibits were added in the Museum's four departments—Anthropology, Botany, Geology, and Zoology (see pages 51, 57, 65, and 76).

The research collections of the Museum were also increased notably by the acquisition of the Fred Button Collection of mollusks, the Dr. E. H. Taylor Collection of amphibians and reptiles, and a choice collection of marine shells from Dr. Jeanne S. Schwengel. Generous and valuable gifts from many other friends of the Museum are listed at the end of this Report among the accessions that were received in our scientific departments (see also pages 47, 54, 64, and 72). Of unusual interest is a Maori *tiki* presented by Captain and Mrs. A. W. F. Fuller (see page 43). The Museum is deeply indebted to its friends whose generosity has added immeasurably to its collections and to its funds.

As usual, the Museum carried on its full program of scientific research and field work in various parts of the world. Expeditions worked in the Belgian Congo, Panama, Nepal, the Philippines, Malaya, Egypt, and Colombia and in the waters of the West Indies as well as in the United States and Canada (see page 36). It is significant that we now list most of these trips on our records as "field trips" rather than as "expeditions." "Expedition" carries with it the idea of long journeys and of finding a way over unknown terrain, a concept now almost obsolete. On our field trips now we can be rushed to the other side of the globe by airplane, we can plan our investigations with the aid of good maps, and often we can collaborate with resident naturalists. Though exploration in a geographical sense is a thing of the past, we are still exploring on the frontiers of knowledge, seeking new information about life and its manifestations. Our unique function as a museum dictates that much of our research must start with collecting specimens.

Soundtrek, a system for radio-guided tours of exhibits, has been installed in six exhibition halls. Similar systems have been in use at the American Museum of Natural History (New York) and the National Gallery of Art (Washington, D.C.) long enough to establish the utility of the device as a means of making museum visits more instructive and interesting for the individual. After several months of trial and experimentation to overcome technical difficulties, an operational multichannel system was attained at the end of the year. Now it is possible for Museum visitors to rent a small portable radio

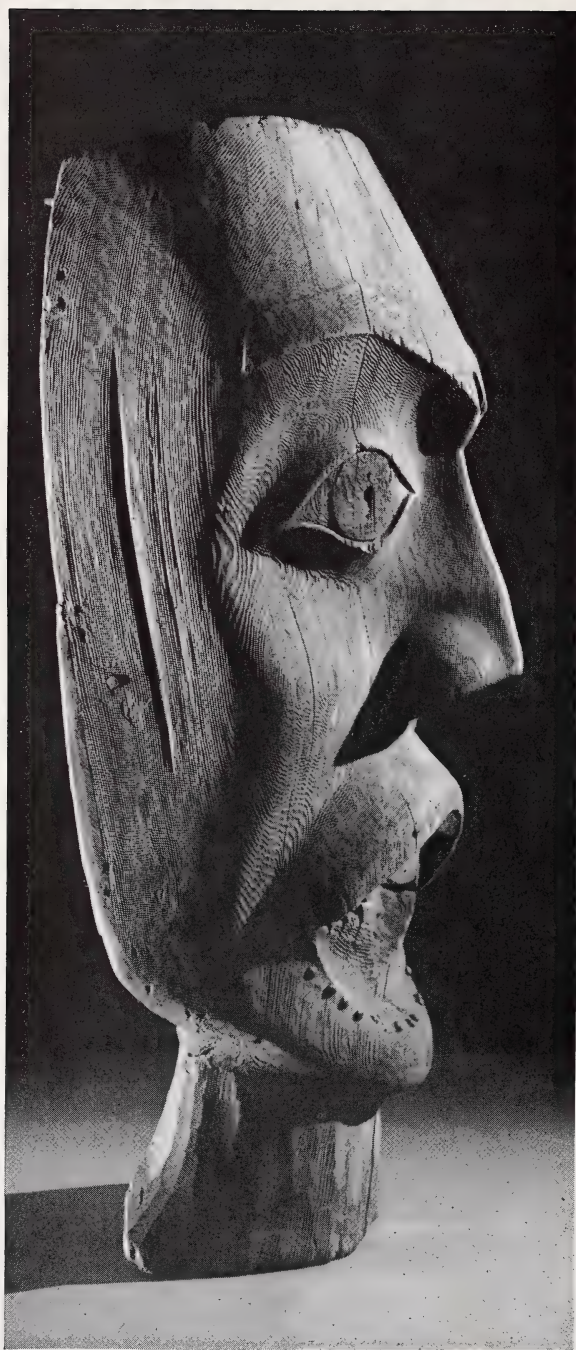
receiver and, while viewing the exhibits, hear an interesting and informative recorded commentary (lasting about thirty minutes) by the curator in charge of the particular hall. Shorter talks of about ten minutes, which may be selected instead by visitors who wish a quick survey, were prepared by members of the Raymond Foundation staff because they are best acquainted with the interests of the casual visitor.

Eighteen or twenty halls will eventually have the Soundtrek installation. The first to be equipped are the halls of American Mammals (16), Reptiles, Amphibians, and Insects (18), Habitat Groups of Birds (20), Prairie and Woodland Indians (5), Ancient Egypt (J), and Stone Age Man (C). The multichannel radio system provides a flexibility that will permit rapid change-over to foreign language and other special kinds of commentary on Museum exhibits when an occasion justifies it.

SPECIAL EVENTS

Favorable notice came from the opening ceremony of the Festival of the Americas, a gala dinner and reception at the Museum at which some four hundred civic, art, and business leaders of Chicago and the consular corps of Pan American countries and of nations in Europe, Asia, and Africa were guests of the Women's Committee of the Pan American Games. A message from President Dwight D. Eisenhower was read by Mayor Richard J. Daley, who, with Mrs. Daley, headed the reception line in Stanley Field Hall to greet the many distinguished visitors. Simultaneously with this event the Museum was host to its Members at a preview of the special exhibit "Indian Art of the Americas" (see pages 21, 25, 51, and 95).

A highlight of the evening was a chamber-music concert by members of the Grant Park Symphony Orchestra presented in James Simpson Theatre through the generosity of Mrs. J. Dennis Freund, of the Women's Committee. This brought commendation from Chicago's music critics, who lauded the concert as the finest musical event of the Festival and were enthusiastic over the Theatre as "the city's finest auditorium for chamber music." The enthusiasm thus engendered led to another series of events: Mrs. Freund organized the Free Concerts Foundation, Inc., and formed the Festival String Quartet, headed by Sidney Harth, concertmaster of the Chicago Symphony Orchestra, for a season of concerts that opened at the Museum on December 9 and will continue with a concert each month through April, 1960 (see page 21).



MASK

NOOTKA
VANCOUVER
ISLAND

HEIGHT
32 INCHES

DISPLAYED
IN
SPECIAL
EXHIBIT

INDIAN ART
OF THE
AMERICAS

SPECIAL EXHIBITS

Of the nine special exhibits displayed during the year several were of unusual interest and beauty. One of these was the first public showing of objects from the famed Fuller Collection of ethnological material from the South Seas under the title "Panorama of the Pacific" (see page 51). The exhibit was planned especially for Members' Night, May 8 (see page 34), so that Members would be informed about one of the Museum's greatest acquisitions. After its initial display in Stanley Field Hall until the middle of July, the exhibit was moved to Hall 18 until the middle of October.

Similarly the exhibit "Indian Art of the Americas," designed to celebrate the Festival of the Americas in connection with the Third Pan American Games, far surpassed in excellence and beauty what one would expect to find in a temporary display (see pages 21, 23, and 51). It brought together for the first time outstanding examples of the major Indian art styles of the past 2,500 years, and popular interest inspired its showing until October 28 (from July 30).

"The Music Makers," an exhibit of exotic musical instruments prepared as an attraction for July and August (when the Museum was open on evenings of Grant Park concerts, see page 21), seems to have filled a long-felt and continuing need and so will be kept on view as long as suitable space remains to display it. "Peoples and Places in India," an exhibit of photographs and miniature sculptures collected by John Moyer while on leave from the Museum to serve as Consul of the United States at Calcutta, was placed on display on October 1 to add interest to the fall illustrated-lecture series, especially the program on India that was presented by Mr. Moyer.

The Museum observed the centennial of the publication of Charles Darwin's *On the Origin of Species by Means of Natural Selection* by a special exhibit in Stanley Field Hall explaining the meaning of natural selection and some of the evidence for it (see page 76). The concept of evolution is dominant in the thinking of present-day naturalists; hence the utility of the exhibit outlives the occasion that brought it to being. The exhibit is being continued through the early spring months of 1960 especially for use by the Raymond Foundation staff and those young people who are candidates for the Museum Discoverers' Club (see page 31). An exhibit on the genetics of of the domestic fowl was lent by the De Kalb (Illinois) Agricultural Association and exhibited in Hall 18 during the Darwin exhibit.

The annual exhibits of nature photography, of amateur hand-crafted gems and jewelry, and of drawings by students in the School of the Art Institute of Chicago added variety and interest.

STAFF OF THE MUSEUM

At his own request Dr. Fritz Haas, Curator of Lower Invertebrates, was made Curator Emeritus of Lower Invertebrates. Dr. Alan Solem, Assistant Curator of Lower Invertebrates, was advanced to Curator, and Melvin A. Traylor, Jr., Assistant Curator of Birds, was advanced to Associate Curator.

Appointments during the year were: Miss Marian Christensen, Secretary, Library; Miss Marilyn Jindrich, Assistant, Public Relations; Dr. Karl Koopman, Assistant Curator of Mammals; Dean Randall, Artist, Department of Botany; Robert J. Reich, Custodian of the Herbarium; Ernest J. Roscoe, Assistant, Division of Lower Invertebrates; and Dr. C. Earle Smith, Jr., Associate Curator of Vascular Plants.

Resignations during the year were: Alfredo Evangelista, Thomas J. Dee Fellow in Anthropology; Mrs. Patricia McAfee Huffman, Associate, Public Relations; and André Nitecki, Cataloguer in the Library. James Barry, veteran Sergeant of the Guard, retired after seventeen years of service.

I record with deep regret the death on January 16 of Frederick Burr, Division of Printing; the death on April 12 of John Roberts, Division of Maintenance; and the death on December 16 of Miss Rose J. Watson, a pensioner.

VOLUNTEER WORKERS

The Museum thanks its volunteer workers for their help during the year. Some of them, designated as Research Associates and Associates, are included in the List of Staff at the beginning of this Report. Other volunteers are: Miss Lynn Beach, Thomas Brodene, Miss Barbara Bruckner, Walther H. Buchen, C. Boyd Bumzahem, Teddy Czyzewicz, Miss Margot Donald, Michael Duever, Robert Elliott, Miss Patricia R. Falkenburg, John Gedgaudas, Mrs. Dorothy Gould, Mrs. Samuel H. Grove, Jr., Mrs. Esther Hermitte, Harold Hinds, John Kresinske, Mrs. Peggy Litten, Fred Matejcek, Michael Moore, Mrs. Glen Nellis, Thomas Olechowski, Thomas O'Neill, Philip Porzel, George Semmelman, Miss Margaret Shurrager, Douglas E. Tibbitts, John Veriga, and Mrs. Adele Woods. Boris Ivanov, of the Library staff, who has been working on a reduced-hour basis, became so deeply interested in the work he was doing that he also worked many extra days as a volunteer. Our volunteers assisted in various divisions of the Museum's scientific departments.

TRUSTEES AND OFFICERS

It will be no surprise to Members of the Museum that Stanley Field was elected at the annual meeting of the Board of Trustees to serve as President of the Museum for the fifty-first consecutive year. In recognition of his years of service to civic institutions of Chicago, particularly to this Museum, Northwestern University at its commencement ceremonies held on June 15 conferred the honorary degree of Doctor of Laws on Mr. Field. This well-merited honor for his service to the people of Chicago in directing an outstanding educational and research institution was widely acclaimed.

All other officers of the Museum were also re-elected: Vice-Presidents Hughston M. McBain, Walther Buchen, and Joseph N. Field and Treasurer Solomon A. Smith, Secretary Clifford C. Gregg, and Assistant Secretary John R. Millar.

Members of the Board of Trustees were saddened by the death on July 26 of John P. Wilson, a Trustee of the Museum since 1932. His fellow Trustees adopted the following resolution in his memory:

JOHN P. WILSON

1877-1959

"News of the death of John P. Wilson on July 26, 1959, was received with profound sorrow and a deep sense of personal loss by all members of the Board of Trustees of Chicago Natural History Museum. Mr. Wilson joined the Board of Trustees in 1932 and was elected the next year to the Finance Committee and the Executive Committee. His wise counsel, deep interest in the work of the Museum and in the welfare of its employees, and his sound business judgment aided materially in the progress of this institution.

"Prominent in the affairs of the City of Chicago, he was senior partner of Wilson & McIlvaine, attorneys, and served on the board of directors of many widely known corporations, including Marshall Field and Company, the International Harvester Company, the First National Bank of Chicago, the Harris Trust and Savings Bank of Chicago, the United States Trust Company of New York, and the General Electric Company. His unusual talents were made available also to the board of trustees of the University of Chicago, the Newberry Library, and the Children's Memorial Hospital, of which he served many years as president.

"A graduate of Williams College, he served many years on that institution's board of trustees, his outstanding service being rewarded in 1953 by the honorary degree of Doctor of Laws.

"While we feel heavily the loss of his guidance and counsel, we feel even more deeply our personal loss of his friendship and his warm personality.

"Therefore, be it resolved that this expression of our high appreciation of his outstanding qualities and our sorrow at his death be permanently preserved in the records of the Board of Trustees of the Museum.

"And be it further resolved that our deep sympathy be conveyed to the members of his family and that a copy of this resolution be sent to his widow."

ATTENDANCE

Attendance increased in 1959 to 1,075,426, a gain of 26,025 over 1958. It is significant that the increase occurred in the latter part of the year, probably as a cumulative result of the Museum's many activities (December alone showed an increase in attendance of 19,500 persons). The increase was primarily on weekends, with the total of paid admissions declining slightly under that of the previous year. Increased parking facilities made it possible for visitors to attend the Museum despite inadequate public transportation.

LECTURE PROGRAMS FOR ADULTS

The 111th and 112th series of free Illustrated Lectures for adults were presented in James Simpson Theatre of the Museum on Saturday afternoons during March, April, October, and November. The wide variety of subject-matter ranged from India and the Philippines to Patagonia and Colorado. "Wildlife in Deep Freeze" was presented by Carl Eklund of the United States Fish and Wildlife Service, and Captain Finn Ronne's lecture "Probing Antarctica" revealed scientists in action during the International Geophysical Year. The Iron Curtain and the Bamboo Curtain have closed various sections of the earth, particularly Asia, to travel and photography, so that it becomes ever more difficult to present new and unusual variety in film lectures. The response of the public to the offerings of the Edward E. Ayer Lecture Foundation was most encouraging. Attendance at the seventeen lectures totaled 16,447.

JAMES NELSON AND ANNA LOUISE RAYMOND
FOUNDATION FOR PUBLIC SCHOOL AND
CHILDREN'S LECTURES

The trend in recent years of greater use of museums by school groups has continued, and we offered our usual programs, tours, and motion pictures to meet this increasing demand for organized groups to visit museums as a part of schoolwork. More than 2,000 groups totaling about 78,000 children were given tours and programs, and almost 300 groups (nearly 8,000 children) were on waiting lists. Many of these groups did not come to the Museum if there were no cancellations. The total number of organized groups in the Museum for the year was 4,485 groups including 206,583 students (many of these groups could not be assisted by Raymond Foundation and explored the Museum by themselves).

Use of the Museum by school groups has spread farther and farther into the suburbs and nearby towns and states. For example, the total of Chicago public, parochial, and private schools served was 742 groups with 26,261 students, the total of suburban public, parochial, and private schools served was 1,237 groups with 46,863 students, and the total out-of-state attendance was 133 groups with 5,031 students.

Of course the best educational program for a school group in the Museum is when one Raymond Foundation staff member can assist a group of not more than 35, but because of the great demand for services this best method often has had to be changed so that one staff member can direct and help a larger group of as many as 130. Programs therefore have been designed to help the student help himself in his search for information in the Museum halls. Most outstanding in demand and success for this type of program were "Ancient Egypt, Our Inheritance from the Past" (given in spring and fall 46 times to 4,247 students), "Bird Study" (given in the spring 46 times to 2,792 students), and "How Animals Adjust to Their Environment" (given 12 times in the fall to 791 students).

One of the greatest needs in this school-Museum program has been to get information and suggestions of programs to the schools and teachers to help them plan their Museum trips. Suggestions sent to all schools each September and February relate Museum programs and tours to courses of study at various grade-levels at the times needed. Often a program correlated with the course of study is of timely interest as well. An example in 1959 was "Moon and Meteorites" for intermediate grades, which offered a movie "A Trip to the Moon" and a tour of our excellent meteorite exhibits. Almost



NINE MUSEUM EXPLORERS
WERE PRESENTED WITH COPIES
OF DARWIN'S
"THE VOYAGE OF THE BEAGLE"

THEY ARE GROUPED
IN STANLEY FIELD HALL BEFORE
THE SPECIAL CENTENNIAL EXHIBIT
HONORING CHARLES DARWIN

WITH THEM IS
JOHN R. MILLAR, DEPUTY DIRECTOR
OF THE MUSEUM, WHO MADE
THE PRESENTATIONS

1,600 students participated in this program, which was given 47 times in March.

Other organized groups participated in programs especially planned for their needs, such as Boy Scout Hobby Day in January, Girl Scout intermediate-badge programs in February, Honor Days on Saturday mornings for Girl Scouts, Camp Fire Girls, Cub Scouts, and YMCA groups, and a summer program "Goin' Fishin' " for organized groups of all kinds, such as day camps and play groups.

For individual children the Museum continued its spring, fall, and summer motion-picture programs—33 were given to 20,864 children. A new activity was added in the fall on Saturday-morning motion-picture days—an exploration sheet was given to each child to direct him or her to the Museum exhibits pertinent to the movie of the day. Raymond Foundation's looseleaf Museum Stories were distributed as usual to the children who attended the spring and fall motion-picture programs on Saturday mornings.

Museum Journeys continued for individual children, with four different journey-subjects presented during the year: "Life of Ancient Seas," "Goin' Fishin'," "Giant Plants," and "Animals of the Ice Age." During the year 945 Journeys were completed and reports turned in. Awards were presented in spring and fall to boys and girls who had successfully completed Museum Journeys as follows: 38 completed a first group of four Journeys and became Museum Travelers; 17 completed a second group of four Journeys and became Museum Adventurers; 9 completed a third group of four Journeys and became Museum Explorers; 13 completed a fourth group of Journeys (this takes 4 years) and became eligible for the last special Journey, which is called "The Voyage of the Beagle" in honor of the Darwin Centennial (see page 22). This Journey takes the Museum Explorers around the Museum to see the exhibits of some of the things that Charles Darwin saw on his famous trip on the *Beagle*. On November 21, nine Museum Explorers were presented with copies of Darwin's book *The Voyage of the Beagle* to prepare them for the Journey and were photographed in Stanley Field Hall in front of the special exhibit honoring Darwin (see facing page).

The first four boys and girls who successfully completed this Journey were made charter members of the new Chicago Natural History Museum Discoverers' Club. Club members receive a membership card signed by the Director of the Museum and, among other privileges, are entitled to a bound copy of each series of Museum Stories and a subscription to the Museum's *Bulletin*.

A summary of activities of Raymond Foundation for the year, with attendance figures, is presented on the following page.

RAYMOND FOUNDATION ATTENDANCE FOR 1959

1. WORK WITH CHILDREN IN THE MUSEUM

| <i>A. With school groups</i> | Groups | Individuals | Groups | Individuals |
|--|--------|-------------|--------|-------------|
| Chicago public..... | 658 | 23,644 | | |
| Chicago parochial..... | 44 | 1,710 | | |
| Chicago private..... | 40 | 907 | | |
| Suburban public..... | 1,192 | 45,203 | | |
| Suburban parochial..... | 38 | 1,516 | | |
| Suburban private..... | 7 | 144 | | |
| Out-of-state..... | 133 | 5,031 | | |
| Total for school programs..... | 2,112 | 77,831 | | |
| <i>B. With other children's groups</i> | | | | |
| Tours only..... | 59 | 4,016 | | |
| Special programs..... | 44 | 6,435 | | |
| Journeys..... | | 945 | | |
| Children's movies..... | 33 | 20,864 | | |
| Total for other children's programs | 136 | 32,260 | | |
| TOTAL WORK WITH CHILDREN | | | 2,248 | 110,415 |

2. WORK WITH ADULTS

| | | | | |
|--|-----|-------|-------|---------|
| <i>A. Tours only</i> | | | | |
| Colleges..... | 31 | 656 | | |
| Public tours..... | 277 | 3,659 | | |
| Miscellaneous..... | 21 | 455 | | |
| Total tours..... | 329 | 4,770 | | |
| <i>B. Special programs</i> | | | | |
| Colleges..... | 12 | 467 | | |
| Miscellaneous..... | 61 | 6,246 | | |
| Total special programs..... | 73 | 6,713 | | |
| TOTAL WORK WITH ADULTS..... | | | 402 | 11,483 |
| GRAND TOTAL FOR RAYMOND FOUNDATION WORK..... | | | 2,650 | 121,898 |

THE N. W. HARRIS PUBLIC SCHOOL EXTENSION

The Museum's extension service whereby portable exhibits of natural-history material are made available to the schools of Chicago continued in operation through the year. The service consists of delivery to each school of two portable exhibits followed by two replacements on every tenth schoolday thereafter, so that in the course of a year each school receives 34 different exhibits. The increased emphasis today on science in the schools gives the exhibits greater significance than ever before.

At the beginning of the year 516 schools and other public-service institutions were receiving the exhibit-loans on schedule, and at the end of the year the lending list numbered 505. Four new schools were added during the year. Of the fifteen schools that were dropped, one was destroyed by fire, two were closed as fire hazards, nine were closed because of population shifts or for expressway land-clearance, one became inaccessible because of road reconstruction, and two asked to have the service discontinued because of disciplinary problems within the schools. The two departmental trucks were on the road during 167 days of the year and traveled 11,191 miles.

Breakage in circulation was moderate. Of 278 cases repaired in the shop, 22 had been broken in circulation and in only 6 of the 22 was there damage to the installations. An exhibit (short-eared owl) was stolen from an elementary school. In summer, when all of the portable exhibits were in the Museum for cleaning and storage, the catalogue numbers on some 400 of them were relettered. One new exhibit (a native wild rose) was completed in October, for which Staff Artist E. John Pfiffner painted the habitat background. Five duplicates of the exhibit will be ready early in the new year when the background paintings for them are finished. Several short trips into the field were made in order to gather the plants, soils, and environmental material needed in the preparation of the exhibits.

Requests for the loan of specific materials reached an all-time high. Sixty-one such requests were filled, an increase of 26 over last year, and Harris Extension signed out more than 600 birdskins and mounted birds, as well as other materials such as shells, rocks and fossils, insects, and mammal skins. Assembling these items was more time-consuming than in past years because 40 per cent of our floorspace had to be transferred to another department, and our study-collections, from which loans are selected, are now stored on the ground floor where they are less readily accessible. Sixteen of the standard portable exhibits were sent out as special loans apart from the routine lending program that is the primary function of Harris Extension.

MEMBERS' NIGHT

The annual Members' Night, which was held this year on Friday evening, May 8, turned out to be the Museum's most successful event of the kind. Ideal weather permitted 1,620 visitors to attend, this being the record attendance to date. Special features of the occasion were the first public showing of the famous Fuller Collection of ethnological objects under the title "Panorama of the Pacific" (see page 51), the newly reinstalled Hall of Meteorites and Minerals in the Department of Geology (see page 65), and the Hall of North American Trees in the Department of Botany (see page 57). Refreshments served in Stanley Field Hall during the evening carried out the Polynesian theme of the "Panorama." As usual, a chartered bus operated between State Street and Jackson Boulevard and the Fourteenth Boulevard entrance of the Museum. Many Museum visitors came early enough to begin their evening with dinner in the Museum cafeteria.

MEMBERSHIP

New Members of the Museum in all categories in 1959 totaled almost 1,500, more than doubling the figure for the previous year. Losses by death, transfers, moving from the Chicago area, and cancellations reduced the net gain to 833, which is substantially better than the net gain of 219 in 1958. The membership rolls of the Museum now carry the names of 6,555 different persons compared with 5,722 a year ago, in addition to a substantial number of Members who are listed in more than one category of membership. Names of Contributors elected during the year by the Board of Trustees are given on page 37. Complete membership lists begin on page 126. The fees of our Life and Associate Members build up the endowment funds of the Museum, and dues paid annually are included in our operating funds. The Museum is grateful to its Members for both their interest and their support.

It is with deep regret that I record the death of Dr. B. P. Georges Hochreutiner, Honorary Director of the Musée, Conservatoire, et Jardin Botaniques and Honorary Professor of the University, Geneva, who had been a Corresponding Member of this Museum since his election by the Board of Trustees in 1933. (See page 126 for roster of Corresponding Members—scientists or patrons of science, residing in foreign countries, who have rendered eminent service to the Museum.)



ASSISTANT TAXIDERMIST ANDERSON
EXPLAINS HIS WORK
TO INTERESTED YOUNG GUESTS

MEMBERS' NIGHT
AT THE MUSEUM

EXPEDITIONS AND FIELD TRIPS IN 1959

The Museum conducted fifteen expeditions and field trips in 1959. Their work is described in this Report under the headings of the scientific departments (see page references below).

Expeditions and field trips and their leaders are:

DEPARTMENT OF ANTHROPOLOGY—*Great Lakes Area Archaeological Field Trips* (George I. Quimby, Curator of North American Archaeology and Ethnology, see page 44); *Southwest Archaeological Expedition* (Dr. Paul S. Martin, Chief Curator of Anthropology, see page 41 and following)

DEPARTMENT OF BOTANY—*Northern Great Plains Botanical Field Trip* (Dr. John W. Thieret, Curator of Economic Botany, see page 54 and illustration on page 52)

DEPARTMENT OF GEOLOGY—*Idaho Paleontological Field Trip* (Dr. Robert H. Denison, Curator of Fossil Fishes, and Orville L. Gilpin, Chief Preparator of Fossils, see page 60); *Indiana Paleontological Field Trips* (Dr. Ranier Zangerl, Curator of Fossil Reptiles, and Dr. Eugene S. Richardson, Jr., Curator of Fossil Invertebrates, see page 59); *Southwest Mineralogical Field Trip* (Albert W. Forslev, Associate Curator of Mineralogy, see page 62); *Wyoming Paleontological Field Trip* (William D. Turnbull, Assistant Curator of Fossil Mammals, see page 60)

DEPARTMENT OF ZOOLOGY—*Belgian Congo Zoological Expedition* (Dr. Robert F. Inger, Curator of Amphibians and Reptiles, see page 68); *Colombia Zoological Expedition* (Kjell von Sneidern, see page 67); *Co-operative Field Work with United States Fish and Wildlife Service in the West Indies* (Loren P. Woods, Curator of Fishes, see page 68); *Egypt Zoological Field Trip* (Melvin A. Traylor, Jr., Associate Curator of Birds, (see page 68); *Great Plains Zoological Field Trip* (Rupert L. Wenzel, Curator of Insects, see page 67); *Great Smokies Zoological Field Trip* (Dr. Fritz Haas, Curator Emeritus of Lower Invertebrates, see page 67); *Malaya Zoological Field Trip* (D. Dwight Davis, Curator of Vertebrate Anatomy, see page 68); *Panama Zoological Field Trip* (Henry S. Dybas, Associate Curator of Insects, and Dr. Alan Solem, Curator of Lower Invertebrates, see page 67 and illustrations on page 66)

GIFTS TO THE MUSEUM

The Museum received from the estate of the late Homer E. Sargent 200 shares of stock in the Kern County Land Co., to provide for the maintenance of the American Indian collections that he presented several years ago, and from the estate of the late Dr. Jesse R. Gerstley \$4,890.48. Generous gifts were received from Mr. and Mrs. Herbert Baker, \$2,000; Arnold H. Maremont, \$2,500; Mr. and Mrs. Roy E. Sturtevant, \$1,000; and DeWitt Van Evera, \$3,300. The Johnson Foundation added \$3,000 to the S. C. Johnson Fund for our continuing study of waxy palms.

Stanley Field, President of the Museum, gave an additional \$39,832 for endowment and \$2,168 for current operating expenses. Mrs. Stanley Field, a Benefactor of the Museum, added \$15,000 to the Sara Carroll Field Fund; Sterling Morton added \$10,000 to the Sterling Morton Endowment Fund; and Dr. Maurie L. Richardson added \$1,750 to the Maurice L. Richardson Paleontological Fund.

Additions to other Special Funds were in the following amounts: \$962.50 from Miss Margaret Conover for the Conover Game-bird Fund; \$750 from C. Suydam Cutting for the C. Suydam Cutting Fund; \$200 from Dr. Clifford C. Gregg for the Commander Frank V. Gregg Memorial Fund; \$14,118.26 from the estate of the late Mrs. Abby K. Babcock for the Frederick Reynolds and Abby Kettelle Babcock Fund; and \$639.60 from the estate of the late Stewart J. Walpole for the Stewart J. Walpole Endowment Fund (for use of Special Funds in 1959 see page 116).

Herman Waldeck gave \$235 and Mr. and Mrs. Louis Ware gave \$500 for budget purposes. Blair Coursen gave \$200 to assist in ornithological research. Other gifts came from Hamilton Allport, Edwin C. Austin, George A. Bates, William U. Bardwell, John Borst, Jr., Peder A. Christensen, Mr. and Mrs. Gaylord Donnelley, Mrs. Jerome Fallon, Calvin E. Fentriss, Joseph N. Field, Flexible Steel Lacing Company, Brimson Grow, John Plain Foundation, MAPI Foundation, Mrs. Langdon Pearce, Philip S. Rinaldo, Jr., Melville N. and Mary F. Rothschild Fund, Mr. and Mrs. Reuben M. Schutz, and Edgar J. Uihlein, Jr.

Contributors elected by the Board of Trustees are Mr. Herbert Baker, Mrs. Herbert Baker, Captain A. W. F. Fuller, Dr. Jesse R. Gerstley (posthumously), Arnold H. Maremont, George I. Qimby, and Dr. Alan Solem (for roster of Contributors see page 127). Gifts of materials received during the year are listed at the end of this Report (see page 118) and under the heading "Accessions" in the reports of the scientific departments (see pages 47, 54, 64, and 72).

Under the auspices of The Karl P. Schmidt Fund (see Annual Report 1958, page 30) three students were enabled to carry on studies at the Museum. These were Robert C. Feuer of the University of Michigan, who came to study turtles in the Museum collections, John Ostrom of Beloit College, who came to study certain dinosaurs in our collections, and José M. Gallardo of Museo Nacional in Buenos Aires, who came to study South American amphibians in the Museum collections.

This Fund, contributed by friends of the late Dr. Karl P. Schmidt of the Museum staff, is administered by the Museum except that grants-in-aid are awarded by a special committee that includes both Museum and non-Museum personnel and does not involve the Museum administration. An additional sum of \$471.06 was turned over to the Museum in 1959 for investment.

BRONZE
DISC

ARGENTINA

DIAMETER
11.5
INCHES



DEPARTMENT OF ANTHROPOLOGY

DEPARTMENT OF BOTANY

DEPARTMENT OF GEOLOGY

DEPARTMENT OF ZOOLOGY

POTTERY EXCAVATED
IN 1959 BY
SOUTHWEST
ARCHAEOLOGICAL
EXPEDITION

CANTEEN

ABOUT A.D. 1300
TULAROSA
BLACK-ON-WHITE

DUCK-EFFIGY POT

ABOUT A.D. 1100
RESERVE
BLACK-ON-WHITE



Department of Anthropology

Research and Expeditions

Archaeological work near Vernon, Arizona, was resumed for a fourth season by the Southwest Archaeological Expedition under the leadership of Dr. Paul S. Martin, Chief Curator of Anthropology (see page 36). He was assisted by Dr. John B. Rinaldo, Assistant Curator of Archaeology, Custodian of Collections Allen S. Liss, Howard Anderson, Margaret Alder, Michael Fox, Martin Hoffman, William Longacre, Mrs. Martha Perry, Mrs. Ruth Rinaldo, Roland Strassburger, and Mark Winter.

The basic objective of anthropological and, therefore, archaeological work is to explain the similarities and differences in culture patterns and the processes by which they evolved. When an anthropologist finds similarities in patterns in widely separated cultures, he assumes that these may be the result of parallel invention or development, diffusion, or migration. On a smaller scale, the same problem of similarities (and differences) is met with in tracing the development of Mogollon culture and in following the movement of the Mogollon people from west-central New Mexico to east-central Arizona and perhaps into the area of the contemporary Zuni Indians.

Excavations in 1959 were undertaken at two sites: (1) the Mineral Creek site, on the ranch of Earl Thode, and (2) a large pueblo site, on the east bank of the Little Colorado River near Springer-ville (Arizona), on the ranch of Robert B. Hooper.

The Mineral Creek site is a village of several surface rooms with masonry walls and a large depression. Six rooms were excavated. Masonry was inferior. One room included several related features: three storage bins, a firepit, and a ventilator. Most of the rooms had been provided with firepits and were therefore probably used as dwelling units. Just under the floor of one room a burial was found that yielded a duck-effigy pot and a necklace made of shell beads and many thousands of stone beads. A few hundred feet south of the pueblo was a large depression that, when excavated, proved to be a circular great kiva 9.3 meters in diameter with walls of native earth. Certain features of this structure appear to have been borrowed from the Chaco Canyon region to the north, although the hearth area, roof structure, and entrance may be Mogollon. Three burials were found within the great kiva: an adult (buried with a black-on-red pottery bowl and a plain red "seed jar"), an

adolescent, and a child. The tools of stone and bone show a continuity of Mogollon tradition and technology. Snowflake black-on-white was more abundant than any other painted pottery.

The conjectured date for this pueblo and great kiva is about A.D. 1100. The Museum expresses its thanks to Mr. Thode for permitting us to dig the site and to bring back the artifacts recovered.

The major work of the expedition staff was the excavation of the large pueblo on the Hooper ranch. The Museum is grateful to Mr. and Mrs. Hooper for granting permission to dig, for help given the expedition, and for permission to ship all artifacts to the Museum for study.

Two tiers of rooms were dug at right angles to one another. This was done in order to get a fair cross-section of the mound because it was impossible to excavate the whole edifice. Twenty-three rooms and two kivas were excavated.

It is thought that the nucleus of the pueblo was a small one-story building of ten or fifteen rooms. Other rooms had been added later. At some time early in the life of the village many ground-floor doorways were sealed, and some time after that another architectural change of major importance occurred. Ground-floor rooms were filled with dirt and rocks, roofs were removed, and then approximately sixty new rooms were built on this fill with the new floors four or five feet above the ground-floor levels. The walls of the upper rooms do not coincide with the earlier lower walls but crisscross the old ones. Apparently the people who built the upper rooms desired a pueblo that was completely different from the earlier pueblo in arrangement. Few such ruins are found in the Southwest.

Several hypotheses occurred to Chief Curator Martin and associates for this uncommon ground-plan. One is that, because of floods from the Colorado River, the inhabitants tried to keep out floodwaters by sealing doors. Perhaps this plan was only partially successful, and it was then necessary to raise the floor levels several feet to overcome this difficulty. But there seems to be no explanation for the crisscross wall-pattern. From the point of view of a modern engineer, it would have been simpler to have carried the walls straight up from bottom to top and to have kept the same general ground-plan and arrangement of parts. Since there is no temporal gap of any consequence (for example fifty years or more) nor any abrupt shift in popularity of pottery types, one cannot explain the new and different building as the caprice of newcomers. Nor can one very well postulate marauders as the cause for sealed doorways, raised floors, and crisscrossed walls. At the moment,

ANCIENT
GREENSTONE
"HEI TIKI"

FROM
THE MAORI
OF
NEW ZEALAND

HEIGHT
8.5 INCHES

FULLER
COLLECTION



then, we have no explanation. Square stone-lined firepits were found in almost every room. Petroglyphs of animals and men were pecked into the walls of some rooms.

Three kivas were found: two were excavated, but the largest was left untouched.

The smaller of the two excavated was paved with well-fitted slabs. In the mouth of the ventilator tunnel (at the edge of the bench) was a horseshoe-shaped slab. The ventilator shaft was small and placed, like a round chimney, between the faces of a wall. A bench occupied about a third of the kiva on the west side. This kiva was about 4 meters square. The larger kiva also had a bench, but on the south side. In the unpaved floor just south of center was a stone-lined rectangular firepit and an ash pit, north of that a stone vault, and just beyond that a kachina kihu in the north wall of the structure. On the southern platform was a large stone bowl. This kiva measured 6.5 meters by 4.4 meters.

Approximately 14,000 sherds and 1,000 tools of stone and bone were recovered from the Hooper ranch site. From the 14,000 sherds twenty-five restorable vessels have been located and are being mended. The most abundant painted pottery type (about 14 per cent of the total) was Tularosa black-on-white. Following that type and in descending order of frequency are several polychrome types. The Hooper ranch site has not been definitely dated but the conjectured time of occupation of the pueblo must have been about A.D. 1300 to 1375.

Dr. Donald Collier, Curator of South American Archaeology and Ethnology, carried on studies of materials collected in 1956 during the archaeological expedition to Peru and supervised the drawing of maps and plans for a projected publication on this research. His work with Dr. A. L. Kroeber, Research Associate in American Archaeology, on Nazca pottery from Peru was brought near completion. Curator Collier did research in Mexican archaeology in connection with the reinstallation of Hall 8 (Ancient and Modern Indians of Mexico and Central America) and prepared a paper on agriculture and civilization in Peru for presentation at the annual meeting of the American Anthropological Association (see page 91).

George I. Quimby, Curator of North American Archaeology and Ethnology, continued his research on problems of archaeology and environment in the Upper Great Lakes region. He made study trips to museums and universities in Michigan, examined collections owned by individuals, and conducted field research in various areas of upper and lower Michigan (see page 36).



RESTORATION BY WALTER BOYER
DRAWING BY GUSTAF DALSTROM

PHOTOGRAPH
AND DRAWING
OF
RARE POTTERY BOWL
(RESTORED)

MASKED FIGURES
MAY REPRESENT
KACHINAS

DATED
ABOUT
A.D. 1325



EXCAVATED
BY
SOUTHWEST
ARCHAEOLOGICAL
EXPEDITION
1959

Through the kindness of Mr. and Mrs. Charles W. Bissell, of Grand Rapids, Michigan, who provided transportation on their boat, Curator Quimby was able to visit an important site on an island off the Upper Peninsula of Michigan, where he made test excavations and obtained surface collections. He also made a preliminary archaeological survey of the north shore of Lake Michigan from Waugoshance Point to Mackinaw City and from St. Ignace to a few miles west of Manistique. Near Grand Marais, Michigan, Curator Quimby examined the locus of an Old Copper find partly covered by shifting sand-dunes in a fossil cedar-swamp high above Lake Superior. On Grand Traverse Bay at an Archaic site where surface collections were obtained he ran elevations and made test trenches in an attempt to determine the relationship of this site to the Nipissing stage of the Upper Great Lakes. The most rewarding part of his field work this year was the rediscovery of a protohistoric Woodland site in western Michigan. The Museum had acquired a large and comprehensive collection from this site, but it was without documentation and thus not scientifically useful. After six months of persistent inquiry that involved questioning various people and studying old letters and newspaper files, Curator Quimby was able to learn the approximate location of this site, which had been excavated thirty-five years earlier. Then he searched the area until he found a locus containing some of the identical forms of artifacts that were in the Museum's collection, thereby obtaining the specific location of the site. The Museum's collection, thus documented, will provide the basis for a forthcoming study of Late Woodland Indians.

During the year Curator Quimby completed a manuscript for a book on the archaeology, ethnology, and geography of the Upper Great Lakes region from 11,000 B.C. to A.D. 1800, which will be published by the University of Chicago Press as a contribution of Chicago Natural History Museum.

Dr. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, carried on his research interests in Palauan social organization and political change, completing one phase relating to figures of speech in kin-group terminology.

Phillip H. Lewis, Assistant Curator of Primitive Art, continued research into variability of Melanesian and African art and into meaning of primitive art. Exhibition for the Division of Primitive Art was given great impetus by the decision to make Hall 2, which housed Roman and Etruscan antiquities, a hall of primitive art in which will be brought together outstanding art-objects from various primitive cultures of the world.

Dr. Kenneth Starr, Curator of Asiatic Archaeology and Ethnology, emphasized two types of research during the year. One type, representing a broad interest, centered in the study of the origins and early history of the various east Asian civilizations from the time of the earliest archaeological evidences down to the beginning of the historic period. A second type, representing a more specialized interest, has been directed toward Chinese ink-rubbings, a subject whose study for many centuries has been pursued by Chinese scholars but which until very recently has been but little explored by western students.

During the first part of the year Assistant Curator Rinaldo joined efforts with Chief Curator Martin in preparing a report on the excavation of Table Rock site, a large Pueblo Indian village in eastern Arizona. Analysis indicates that, although numerous trade materials were obtained and used locally, the bulk of the artifacts are Mogollon in character and represent a continuity extending back in time for some 2,000 years. From June to September Dr. Rinaldo supervised excavations for the Southwest Archaeological Expedition (see page 41), and after his return he continued his analysis of materials that was initiated in the field.

Accessions—Anthropology

The most notable accession within the area of Oceanic collections was an extremely fine neck pendant (*hei tiki*) of greenstone from New Zealand. This exceptionally large Maori ornament, one of the finest specimens of its kind, was presented to the Museum by Captain and Mrs. A. W. F. Fuller of London, England. The Fuller *tiki* is now a part of the extensive Fuller Collection of archaeological and ethnological materials from the Pacific acquired by the Museum in 1958 (see Annual Report 1958, page 21). Another outstanding addition to the Oceanic collections is an inlaid shield from the Solomon Islands. This exceedingly rare specimen (acquired by exchange with Raymond Wielgus) is one of three known shields of its type. The other two are in British museums.

Of materials received in the Division of Asiatic Archaeology and Ethnology during the year, one of the most interesting is a set of beautifully colored Chinese shadow puppets. These figures, which date possibly from the 18th century, include several rare pieces, among which are a handsome red bat (symbol of happiness), several city gates, Chinese-style furniture, and a large horse drawing a covered cart. Besides these puppets, which were the



RARE AND VIVIDLY COLORED
DONKEY-SKIN FIGURES
FOR THE
CHINESE SHADOW THEATRE
(BAT IS ABOUT 12 INCHES ACROSS)

POSSIBLY
FROM THE
18TH CENTURY

gift of Miss Edna H. Bahr, we were pleased to receive a complete fine-quality costume of a Manchurian lady from Mrs. Joel Baker and a string of ancient and very rare stone and glass beads (found in a tomb in southwest China) from Dr. David C. Graham, a Museum Contributor. Other materials received by the Department of Anthropology are listed at the end of this Report.

Care of the Collections—Anthropology

The work of cleaning, checking, and moving the South American collection into Room 35 was completed by Custodian Liss under the direction of Curator Collier. Assisting in this project during the year were Miss Ann Levin (Museum Fellow), Alfredo Evangelista (Thomas J. Dee Fellow), and Robert G. Axelrod (Antioch College student). Work was continued in checking and rearranging the Mexican collection that is being moved into the same storeroom. Expansion and reorganization of the study collection of textiles of the world was continued. Assistant Howard Anderson moved the Andaman and Nicobar Island collections from the Pacific Research Laboratory into the India-Southeast Asia storeroom as part of the program to consolidate geographic and cultural areas. Also placed in this storeroom was material from India, Ceylon, Andaman Islands, and Nicobar Islands removed from exhibition in Hall L. During the year portions of the study-storage materials in the Pacific Research Laboratory were rearranged and inventories were made of all drawer contents. This task virtually completed rearrangements that were begun in 1953.

In the Division of Asiatic Archaeology and Ethnology Curator Starr and Dr. Hoshien Tchen, Consultant, East Asian Collection, continued to process the Museum's excellent collection of Chinese ink-rubbings. Apart from the painstaking research involved in identifying and cataloguing these rubbings, research in which Dr. Tchen contributed largely, the work included repair of the fragile paper, some of which is several hundred years old. Miss Ellen N. Chase and Miss Susan Cook (Antioch College students) showed unusual sensitivity and skill in repairing and otherwise handling these rare and delicate materials. The work on rubbings, however, was not done at the expense of other materials in the collection, for with the excellent assistance of Miss Cook, the systematic organization and housing of the large collection of Asiatic coins were completed. Robert Axelrod completed the reorganization of the Japanese and Korean sections of the storage rooms.



SELECTED OBJECTS
FROM
THE FULLER COLLECTION
OF ETHNOLOGICAL MATERIAL
FROM THE SOUTH SEAS

"HEI TIKI"
(SEE PAGE 43)
IS DISPLAYED
IN OWN CASE

SPECIAL EXHIBIT
IN STANLEY FIELD HALL

Exhibits—Anthropology

Fifteen new exhibits were prepared for Hall 8 (Ancient and Modern Indians of Mexico and Central America) and two for Hall 7 (Ancient and Modern Indians of the Southwestern United States). These exhibits were designed by Artist Gustaf Dalstrom and prepared by him and Preparator Walter C. Reese. The materials used in the exhibits were mended and restored by Ceramic Restorer Walter Boyer. Dioramist Alfred Lee Rowell completed the diorama showing an Aztec market scene.

A major feature of Members' Night, May 8, was a special exhibit of selected portions of the Fuller Collection (see pages 25, 34, and 47). This temporary exhibit (on display through July 15 in Stanley Field Hall and through October 15 in Hall 18) was the first public showing of any extensive portion of the Fuller Collection.

A special exhibit "Indian Art of the Americas" was displayed in Stanley Field Hall from July 30 through October 28 as the Museum's contribution to the Festival of the Americas, which was held in connection with the Pan American Games (see pages 23 and 25). The exhibit, which presented major Indian art styles from Alaska to Chile during the past 2,500 years, included material selected from the Museum's collections and borrowed from eight other museums and from two individuals. Curator Collier, who selected the material and planned and installed the exhibit, prepared an illustrated catalogue of the exhibit (see page 100). The installation was designed by Daniel Brenner, Chicago architect. Essential support for the exhibit was given by Arnold H. Maremont, chairman of the Festival of the Americas.

In order to clear Hall 2 for the new Hall of Primitive Art (see page 46) it was necessary to move and retire the exhibits in Hall L and to move and revise the exhibits of Roman and Etruscan materials formerly in Hall 2. Assistant Curator Lewis planned and supervised these moves and revisions, which were carried out by Custodian Liss, assisted by Miss Chase, Miss Levin, Preparator Reese, Artist Dalstrom, and Ceramic Restorer Boyer. However, the greatest amount of work fell to the Divisions of Maintenance and Engineering in moving, painting, and cleaning and in refurbishing and relighting the older exhibits.

Hall L was chosen to house the Roman-Etruscan exhibits because of its proximity to the Egyptian exhibits in Hall J and the Kish materials in Hall K. A doorway was cut through the wall between Hall L and Hall J to permit visitors to move more freely among the exhibits of related ancient Mediterranean cultures.

GRAVEL-BAR VEGETATION

KAKISA RIVER
NORTHWEST TERRITORIES
CANADA

NORTHERN
GREAT PLAINS
BOTANICAL
FIELD TRIP



Department of Botany

Research and Expeditions

Dr. Margery C. Carlson, Associate in Botany, returned in November from an extended trip in Europe and the Canary Islands. She visited the herbaria, botanical museums, and botanical gardens in the larger cities of Europe, where she studied collections of the genus *Russelia* (Scrophulariaceae) and prepared additions and revisions for her monograph on the genus that was published in 1957 by the Museum. She completed her studies of the attachment and penetration of the coffee tree by certain parasites of the Loranthaceae.

J. Francis Macbride, Curator of Peruvian Botany, completed for the *Flora of Peru* a manuscript to equal approximately a hundred printed pages covering the palms found in Peru, and his manuscript on the families Haloragaceae through Convolvulaceae was published by the Museum (see page 100). Paul C. Hutchinson, of the Botanical Garden of the University of California, reported on the present status of his work on the family Cactaceae for the *Flora of Peru* and the drawings prepared under his supervision.

Dr. Earl E. Sherff, Research Associate in Systematic Botany, completed his article on *Dahlia* for the *Encyclopaedia Britannica* (to be printed in the 1960 edition) and the text for *Bidens* (to be incorporated in a Flora of West Virginia). Dr. Rogers McVaugh, Curator of Vascular Plants at the University of Michigan and Research Associate in the Museum's Division of Vascular Plants, continued work on his critical catalogue of the Sessé and Mocino collection of Mexican plants on loan from Madrid.

Curator Emeritus Dr. B. E. Dahlgren, with the collaboration of Dr. Sidney F. Glassman of the University of Illinois (Navy Pier, Chicago), continued research on the wax-palm genus *Copernicia* and prepared the manuscript for a monograph on these plants. Dr. Theodor Just, Chief Curator of Botany, continued his synoptical studies of gymnosperms and comparative studies of modern and fossil angiosperm pollen, prepared several papers for publication (see page 104), and completed his bibliography of paleobotany, which is to be published in 1960.

Dr. C. Earle Smith, Jr., Associate Curator of Vascular Plants, completed his monographic study of *Cedrela* for publication by the Museum. He continued his preparation of a critical catalogue of the Muhlenberg Herbarium (property of the American Philosophical

ical Society), which is on loan from the Academy of Natural Sciences of Philadelphia. The loan of the Elliott Herbarium from Charleston Museum makes possible the crosschecking of type specimens in the two collections. With Curator Thieret he prepared two papers (one in press) on the occasion of the centenary of the death of Thomas Nuttall, early North American naturalist.

Dr. John W. Thieret, Curator of Economic Botany, continued his studies of various tropical American Scrophulariaceae and of temperate and subarctic Gramineae. He published a statistical enumeration of the Scrophulariaceae (see page 104) and prepared some entries of Scrophulariaceae for the international *Index Nominum Genericorum* (Utrecht). Accompanied by Robert J. Reich, Custodian of the Herbarium, he made a field trip to the District of Mackenzie, Northwest Territories, Canada, from June 1 to August 15 (see page 36). Most of the time was spent surveying the vegetation along the new Enterprise-Mackenzie River Highway located on the northern edge of the Alberta plateau southwest of Great Slave Lake. In addition, several days were spent at Lake-on-the-Mountain atop the Horn Plateau west of Great Slave Lake, an area previously unvisited by a botanist.

Miss Edith M. Vincent, Research Librarian, prepared indices for various volumes of Museum botanical publications, checked all references for the *Flora of Peru*, and assisted many correspondents by finding and sending to them descriptions of and information about various plants.

Accessions—Botany

The largest gifts to the herbarium of vascular plants were 4,809 plants of the United States collected by Holly Reed Bennett and 1,101 plants of Mexico, Panama, and Venezuela collected by Associate Curator Smith. Professor P. Maheshwari of the University of Delhi (India) sent an unusual gift of two vials of flowering specimens of *Lemna paucicostata* and *Wolffia microscopica*. The largest collection of plants acquired through exchange included 433 specimens of vascular plants of the Northwest Territories from the Canada Department of Agriculture. An interesting collection of 950 vascular plants of South Africa was purchased from H. J. Schlieben of the National Herbarium in Pretoria. The cryptogamic herbarium received a very good collection of bryophytes of Peary Land as an exchange from the Botanical Museum of the University, Copenhagen.



HALL OF NORTH AMERICAN TREES

REOPENED ON
MEMBERS' NIGHT

Care of the Collections—Botany

Associate Curator Smith spent considerable time in reorganizing the herbarium of vascular plants. A large amount of previously unidentified but mounted material has been filed with the proper families, unmounted specimens are being checked to find which specimens remain to be mounted for the herbarium, and duplicate specimens are being processed for distribution on an exchange basis. Under Dr. Smith's supervision, Frank J. Reid, student assistant, checked during the summer months all Pringle material in the herbarium so that duplicates in this collection could be removed and specimens missing in our collection added. Miss Phyllis I. Moreen, student assistant, cleaned and refiled the entire fruit collection. Gymnosperms are being segregated from angiosperms, and all Illinois specimens are being interfiled in the general collection.

In April a new plastic mounting-technique was initiated, which insures a tighter bonding of the specimens to the mounting paper and should reduce the amount of repair needed through the years. With this technique, production of mounted specimens for individual mounters more than doubled. A total of 23,481 plants was mounted and added to the herbarium of vascular plants. Mounting was done by Mrs. Ann Bigelow, Miss Olive Doig, and Miss Alice Middleton and, for part of the year, by Kent Cherry, Miss Katherine Sanford, and Miss Adrienne Watkins (student assistants) and by Miss Mary E. Adams and Miss Susanne G. Fried (Antioch College students). Additional aid in plant mounting was given by Girl Scouts as their Museum Aid Project, one group from Du Page County (Mrs. E. C. Gollan, Leader, Downers Grove) completing their project that was begun in 1958 and another group from south Cook County (Mrs. F. J. Vodvarka, Leader, Homewood) completing their project in March.

Mrs. Jennie Pletinckx and Custodian Reich, assisted during part of the year by Miss Fried, filed, checked, and repaired specimens. Nils Siegbahn packed materials for shipment, and Robert Yule prepared seed packets and specimen papers. A total of 1,417 vascular plants was sent out in exchange.

Miss Middleton repaired 1,530 specimens of cryptogams for the general collection, and Mrs. Effie M. Schugman filed specimens. A total of 46 wood specimens was sent out in exchange. Curator Thieret was assisted in the care of the wood, seed, and economic collections for part of the year by Mrs. Bigelow and Richard H. Wood, Jr. (Antioch College student). Work on restoration of the type-photograph collection was almost completed by Assistant J. S.

Daston before his five-month leave of absence, only 80 stained negatives remaining to be processed.

Mrs. Lenore B. Warner continued to catalogue and file negatives and prints of the type-photograph collection of flowering plants. She checked all work processed by Assistant Daston, handled orders and exchanges, continued the preparation of a generic index for the Macbride photograph collection, indexed and prepared herbarium sheets to be photographed for the general collection, prepared a numerical index for all Liebmann plates (also indexed in the collection of Mexican plants), and sent out a total of 1,197 type photographs in exchange. Reorganization of the photograph collection of plant models, exhibits, plant products, habitats, etc., was begun by Mrs. Dorothy Gibson, Departmental Secretary, who was assisted in this project during part of the year by Miss Adams and Miss Moreen.

Exhibits—Botany

The Hall of North American Trees (Hall 26, Charles F. Millsbaugh Hall) was reopened on Members' Night, May 8 (see page 34), when about 60 per cent of the reorganization of the hall had been completed. Before the end of the year 84 exhibits of North American trees (including 26 wood exhibits) were reconditioned and nearly all of them had been reinstalled. Chief Curator Just and Curator Thieret prepared 84 new labels for these exhibits and Curator of Exhibits Emil Sella recolored 36 transparencies of forest types. Five new exhibits were installed in Hall 26: "Trees of the Past," "Dutch Elm Disease," "How a Tree Lives," and "Forests of the United States" were placed in four central wallcases and a Carboniferous stump of *Stigmaria* (gift of the American Museum of Natural History) was mounted in the center of the hall with illumination from the ceiling. For Members' Night Associate Curator Smith prepared for the Department of Botany a display "America's Oldest Herbarium," which featured several plant specimens of especial interest from the herbarium of Rev. G. H. E. Muhlenberg, including a Linnean isotype collected near Uppsala, Sweden, by the originator of modern classification. Most of the work on the various exhibits was done by Curator Sella, Artist-Preparator Samuel H. Grove, Jr., Technician Frank Boryca, and Preparator Walter Huebner. Parts of the special exhibit of Darwiniana in Stanley Field Hall during November and December (see pages 25 and 76) were prepared by Artist Grove and Artist Dean Randall.

DUNKLEOSTEUS
(A SECTION OF THE EXHIBIT)

FIRST IN A SERIES
OF NEW EXHIBITS
ON FOSSIL FISHES
IN HALL 38

OF THE DEVONIAN PERIOD



ARTHEODIRA
Fossil Fish
Devonian Period

Department of Geology

Research and Expeditions

Pursuing their investigation of the occurrence of fossil vertebrates and invertebrates in a Pennsylvanian black shale in Parke County, Indiana (see Annual Report 1958, page 59), Dr. Rainer Zangerl, Curator of Fossil Reptiles, and Dr. Eugene S. Richardson, Jr., Curator of Fossil Invertebrates, spent two weeks in the field during the summer (see page 36). Later, in November, they returned to that area and conducted a two-day field conference with members of the Indiana Geological Survey. Both trips led to clarification of points in the stratigraphy of the area.

In the laboratory they continued their work on the fossils collected in the course of this project. They made preliminary notes on all of the many thousands of fossils from the two principal Mecca project localities (Mecca quarry and Logan quarry). This included making and studying 313 X-ray photographs of specimens in the black shale. With an electronic printer purchased this year from a National Science Foundation grant, prints were made of about one-third of the mass of X-ray films of the collection acquired during the year and previous years. These prints are superior to the original films for the purpose of comparative study. Optical analysis of the Mecca shale itself was also made, and a large number of microscopic sections of the shale from the Mecca and Logan quarries was ground and a qualitative and quantitative record of the composition was made.

George Langford, Curator of Fossil Plants, subjected the collections under his care to a complete overhauling to make them more accessible in the two storerooms. The collections consist of three extensive and representative assemblages of fossil plants: one from the Pennsylvanian of Will County, Illinois, and the other two from the Lower Eocene and Upper Cretaceous of the southern states. Many species are involved, some known, others new or informative. Preliminary studies have been made of these new species and some have been described and illustrated.

Dr. Robert H. Denison, Curator of Fossil Fishes, completed his study of Lower Devonian fishes from northwestern Ohio, a collection that was presented to the Museum in 1956 by Dr. J. Ernest Carman of Ohio State University. He has commenced a revisionary study of the Cyathaspididae, a primitive group of Silurian and Devonian jawless vertebrates. This will be based on collections

made during several field trips in the United States and Canada, as well as on an extensive series of casts of European specimens.

During July and August, Curator Denison, accompanied by Orville L. Gilpin, Chief Preparator of Fossils, prospected in the Rocky Mountains from Alberta and British Columbia south through Montana and Idaho to Utah and Wyoming (see page 36). The northern part of the trip was largely reconnaissance with the purpose of determining whether the Devonian formations showed promise of yielding any good fossil-fish assemblages. In Idaho, the Devonian Water Canyon formation was traced northwards from the outcrops in Utah that were worked in 1949 and 1950. Important additions to the fauna were made, including the first articulated fishes that have come from this formation. The last few days of the trip were spent at a new Devonian locality in the Bighorn Mountains of Wyoming. The abundant and well-preserved material obtained has prompted plans for future work here.

William D. Turnbull, Assistant Curator of Fossil Mammals, studied the collections of Washakie formation mammals from Wyoming and spent ten days in the Carnegie Museum at Pittsburgh in this connection. He continued his work on the mammalian masticatory apparatus of the insectivore *Echinosorex*, and with Dr. Charles A. Reed (University of Illinois) he studied two new specimens of the early Oligocene insectivore *Arctoryctes*. Of the numerous rodent specimens of the Washakie fauna that have received special attention, a highly specialized small jumping rodent *Protoptychus* appears to have had a dominant role. In the laboratory, assisted by Burton Adlerblum, a graduate student from the University of Chicago, he sorted out a goodly number of the fossil mammal-teeth from the concentrates taken from ant hills in the lower Washakie beds. He returned with Preparator Ronald J. Lambert to the Washakie basin for six weeks of collecting in the Eocene beds in June and July (see page 36). Noteworthy finds were an articulated skeleton of the little rodent *Protoptychus* and a uinathere skull.

Albert W. Forslev, Associate Curator of Mineralogy, pursued his study of the mineralogical and chemical composition of sediments and sedimentary rocks. Much of his time was devoted to the investigation of the minerals making up the clay-sized fraction of these materials. These "clay minerals" occur as crystals less than one ten-thousandth of an inch in diameter and X-ray diffraction techniques are necessary for their identification. Among the materials investigated were black shales from the Mecca quarry, lake and swamp clays, and soils. He co-operated with Chief Cura-



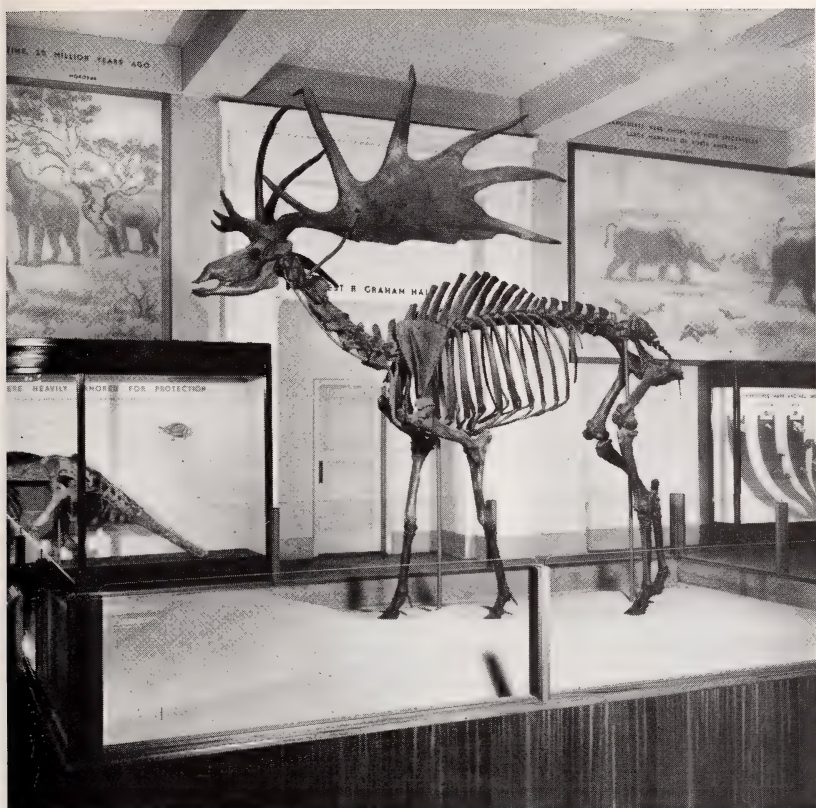
CURATOR ZANGERL
WORKS ON A
SIX-FOOT FOSSIL SHARK
FROM LOGAN QUARRY
IN WEST-CENTRAL INDIANA

tor Roy in some X-ray diffraction work on a new phosphate mineral in the Springwater meteorite. The X-ray diffraction equipment in the Chalmers Mineralogical Laboratory was used on several occasions during the year to analyze and identify materials of the Museum's Department of Anthropology, particularly for some work on potsherds with Howard Anderson.

In September Associate Curator Forslev went on a mineral-collecting trip to various mining areas of the southwestern United States, among which were the Bisbee, Arizona, copper deposits, the borax deposits at Boron, California, and Death Valley, and the recently discovered rare-earth deposits at Mountain Pass, California (see page 36). Excellent specimens for exhibition and material for research were collected. One hundred and fifty insect-bearing concretions of Miocene age, which were collected in the Mohave Desert, were turned over to the Division of Paleontology.

Bertram G. Woodland, Associate Curator of Petrology, made complete analyses of the major constituents of two volcanic ashes, one from Volcano Concepcion in Nicaragua and the other from Volcano San Salvador. In collaboration with the Museum's Department of Anthropology he made petrographic analysis of more than a hundred thin-sections of potsherds collected during the Museum's southwest archaeological expedition of 1958 and from other areas, aided in identification of the material used in making various artifacts, and investigated the nature of the continued corrosion of metallic objects in the collections, making suggestions for the treatment most likely to arrest the corrosion. In the field of research, Woodland continued his petrographic work on a collection of igneous and metamorphic rock from northeast Vermont and collaborated with Chief Curator Roy on the microscopic examination of the silicate portion of the pallasite meteorite, Springwater.

Dr. Sharat K. Roy, Chief Curator of Geology, devoted the greater part of the year to duties connected with completing the installation of twelve meteorite exhibits. On completion of the exhibits, he made detailed petrographic examination of a new mineral in the pallasite Springwater meteorite. The mineral, a magnesium phosphate, which has not been previously reported from natural sources, partially replaces and interdigitates with the iron surrounding the olivine nodules. The mineral will be named Farringtonite in honor of the former Curator of Geology, the late Dr. Oliver Cummings Farrington, who devoted most of his academic life to the study of meteorites. Chief Curator Roy also revised and completed a paper on the Walters meteorite, a chondritic stone that was found at Walters, Cotton County, Oklahoma.



HALL 38

RE-MOUNTED
IRISH GIANT DEER

Accessions—Geology

Notable additions to the collection of fossil invertebrates include a splendid Pennsylvanian (Coal Age) insect from Nova Scotia, the gift of Dr. James E. Canright. Dr. Willard P. Leutze donated 22 fossil eurypterids, including several specimens of very rare species, all collected by him in the Silurian of West Virginia. Among the specimens collected during the summer by Curator Denison and Chief Preparator Gilpin are 113 trilobites, 15 crustaceans, and 7 other fossil invertebrates from the Middle Cambrian Stephen formation, exposed high on the flank of Mount Stephen in British Columbia. These well-preserved specimens are from a spot very close to C. D. Walcott's famous Burgess Pass locality and represent essentially a lateral development of the fauna restored in the Museum's Cambrian habitat group (Hall 37).

Sixty-five specimens of Eocene fishes from Monte Bolca, Italy, were received as the first part of an exchange from the Museo Civico di Storia Naturale in Milan (the Monte Bolca locality is famous for the large variety and excellent preservation of its marine fishes, many of which are closely related to living forms). A small collection of Asiatic fossil mammals, which was purchased from Robert Somerville, was added to the collection of fossil mammals. Two gifts of selected fossil plants collected in the Eocene of Wyoming and Tennessee by the Robert H. Whitfield family considerably enriched the fossil-plant collections. Dr. Edward P. Henderson presented a polished slice of Bonita Spring meteorite, a fall not represented in the Museum's meteorite collection.

Care of the Collections—Geology

The purchase of 44 new steel storagecases has relieved overcrowding in the collections of fossil invertebrates and plants. Specimens temporarily stored in boxes have now been added systematically to the study collection, where they are readily available for reference. At the same time, the collection of fossil fishes has been moved to new quarters, where the specimens are much more accessible. David Techter, Assistant in the Division of Fossil Vertebrates, spent considerable time in reorganizing the collections.

In the Division of Mineralogy and Petrology work continued on the identification, cataloguing, and labeling of the several thousand mineral specimens obtained in the Nelson Collection (see Annual Report 1958, page 63). A complete card index of the

minerals not represented in the Museum's collections was made to provide a quick checklist for obtaining specimens as they become available. Likewise, the lithology collection was completely rearranged and a complete card index of the specimens was assembled systematically according to type of rock. Much of this work, particularly the task of storage and rearrangement of the mineral, economic geology, and lithology collections was done with the aid of Miss Judith L. Lipkowitz, Miss Gretchen S. Quigg, and Miss Miss Judith V. Young, Antioch College students.

The entire meteorite collection was rechecked as to classification, alphabetical order, weight, and number of individuals representing each fall. Also all oxidized iron specimens were re-etched and treated with a rust-resisting reagent.

Exhibits—Geology

The first of a series of new exhibits of fossil fishes was installed in Ernest R. Graham Hall (Hall 38). The new exhibit deals with an extinct Devonian group of armored fishes (placoderms) and features a mount of one of its largest members, *Dunkleosteus*. In the same hall two fossil mammal-skeletons (the remounted Irish giant deer and the restored great ground sloth) were reinstalled. Both skeletons are protected by new bases with glass panels. The fine work of remounting, restoration, and reinstallation was done by Chief Preparator Gilpin and Preparator Lambert.

In the new Hall of Meteorites and Minerals (Hall 35) twelve new exhibits devoted to meteorites were completed during the year. An attempt has been made to present the subject-matter simply, with special emphasis on the origin, phenomena of fall, form, classification, structure, composition, and distribution of meteorites. Tektites and the relationship of meteorites to terrestrial rocks are also shown. An outstanding exhibit in the hall is an oil painting of the Arizona meteor crater, which is shown with specimens that were collected in and around the crater. The painting and other illustrative materials in the hall are the competent work of Miss Maidi Wiebe, Departmental Artist, as is the illustrative and reconstructive work in the fossil-fish exhibit in Hall 38. Five exhibits in the Hall of Physical Geology (Hall 34) were dismantled, renovated, and reinstalled, work made necessary by the discoloration of the backgrounds. The exhibition program was ably carried on by Harry E. Changnon, Curator of Exhibits, Henry Horback, Assistant, and Henry U. Taylor, Preparator.

GEOGRAPHICAL SCOPE OF
OUR FIELD WORK AND
VARIED CONDITIONS UNDER
WHICH IT IS DONE

HUMID FOREST
OF PANAMA
IN WHICH SOLEM
AND DYBAS WORKED

EGYPTIANS GET SPECIMENS
OF BARN OWL FROM NEST IN
WELL IN ARID EGYPT ON
TRAYLOR FIELD TRIP



Department of Zoology

Research and Expeditions

Each of our zoologists was in the field in some part of the world for new material and experience to further his studies or had a collector afield getting specialized material for him. This work was carried on in the United States, Canada, Panama, the western Atlantic off the West Indies, Colombia, Egypt, Belgian Congo, Nepal, Malaya, and the Philippine Islands. All but the Colombia work was by staff personnel.

PANAMA. Curator Alan Solem and Associate Curator Henry S. Dybas spent three months (January through March) in Panama and the Canal Zone studying the fauna of the forest floor (see page 36). Nearly a month was spent in the nature preserve on Barro Colorado Island in the canal, then a month in the lowland forest of the Pacific coast, and finally a month in the mountain forest of the Chiriqui highlands near the Costa Rica border. Curator Solem obtained thousands of mollusks together with an extensive series of photographs of organisms in their native habitat. Associate Curator Dybas investigated the minute feather-wing beetles (Ptiliidae) and the ant-guest beetles of the family Limulodidae, whose taxonomy and biology are his special interest. To facilitate study a battery of sixteen portable insect-funnels (berlese-type), made especially for the trip, was used to sieve out minute insects and other animals from the forest floor. Incomplete sorting of the collection indicates an extensive fauna of minute insects that is still almost completely unknown.

COLOMBIA. Kjell von Sneidern (now of Cali, Colombia) collected birds and mammals in the northeastern part of Colombia in the Arauca area where no previous systematic collecting had been done (see page 36). Although the collections were made early in the year we have not yet received the material.

UNITED STATES AND CANADA. Curator Rupert L. Wenzel, accompanied by his son, spent six weeks (June and July) along the eastern, northern, and western edges of the Great Plains from southern Canada to Colorado (see page 36). First-hand knowledge of local conditions and their effects on insect distribution is essential in interpreting problems in his current studies of histerid beetles. Curator Emeritus Fritz Haas made his headquarters at Highlands (North Carolina) Biological Station while he was studying the mollusks of the Great Smoky Mountains (see page 36).

WESTERN ATLANTIC OCEAN. Curator Loren P. Woods again participated in co-operative field work with the United States Fish and Wildlife Service on the research vessel *Oregon* (September through October), as he did in 1958 and 1957 (see page 36). This year the *Oregon* trawled in the waters of the West Indies, especially off Puerto Rico and the Virgin Islands, to explore for commercial shrimps. However the fish brought up in the trawls from depths ranging from 17 to 380 fathoms were rich in new species.

EGYPT. Research Associate Harry Hoogstraal, still stationed in Egypt, continued to send us specimens of many kinds of animals. Associate Curator Melvin A. Traylor, Jr., joined him for six weeks (April and May) as the guest of United States Naval Medical Research Unit No. 3 in order to study the resident and migratory birds that are hosts to arthropod-borne diseases and as such are of particular importance to Hoogstraal's studies (see page 36).

BELGIAN CONGO. Curator Robert F. Inger made a trip (February through May) to Garamba National Park in the savanna country of extreme northeastern Belgian Congo to study the ecology and behavior of the frogs and toads there (see page 36). This was part of a larger project that included reporting on a large collection of these animals at the request of the Institut des Parcs Nationaux du Congo Belge.

NEPAL. Field Associate Robert L. Fleming's activities included a trip from his mission headquarters at Kathmandu to far western Nepal to study the distribution of birds there.

MALAYA. After Curator D. Dwight Davis participated in the Darwin-Wallace Centenary Science Congress at the University of Malaya, Singapore, in December, 1958 (see Annual Report 1958, page 85), he and Dr. John R. Hendrickson of the University of Malaya spent January and part of February studying and collecting in the rain forests of Malaya (see page 36). They visited various points from King George V National Park in the north to the vicinity of Singapore Island.

PHILIPPINE ISLANDS. After a year of study in the United States (1958) Associate D. S. Rabor was back in the Philippines and made a trip (March through April) into far northern Luzon where he collected birds.

DIVISION OF MAMMALS. Completion of the first draft of the checklist of South American mammals by Curator Philip Hershkovitz (aided by a grant from the National Science Foundation) marks the end of one phase of this comprehensive survey. Results of further revisions of classifications, relationships, and distribution, which have resulted in short papers on some rodents, deer, carni-

vores, and monkeys, will be included in the final checklist of mammals. Bats collected by Research Associate Hoogstraal in Africa form the nucleus of the report on which recently appointed Assistant Curator Karl Koopman is currently engaged.

DIVISION OF BIRDS. Reports on recent collections from Peru and from Colombia, which occupied Curator Emmet R. Blake, have already resulted in the publication of the descriptions of several new forms and a faunal paper on the birds of Cerro Macarena, Eastern Colombia (see page 105). In collaboration with Gunnar Hoy of Argentina he prepared a paper on the birds of northern Argentina. Associate Curator Traylor continued work on his checklist of Angola birds and on the Egyptian birds that are hosts to arthropod-borne diseases. Associate Ellen T. Smith completed a revision of a South American parrot. Chief Curator Austin L. Rand investigated some correlations in wing size and body weight of birds, nest structure and ornamentation in nuthatches, and late records of a supposedly extinct Philippine hanging parrot. In the course of studies on recent Philippine collections from Associate Rabor a new species of babbler in northern Luzon was discovered. Chief Curator Rand has co-authored a book-length manuscript on our midwestern seasons that has been accepted by a New York publisher.

DIVISION OF AMPHIBIANS AND REPTILES. Curator Inger (assisted by a grant from the National Science Foundation) is continuing a study of the reptiles and amphibians of Borneo. With Assistant Hymen Marx he is studying the food habits of amphibians of the Belgian Congo and has completed a revision of a genus of snakes.

DIVISION OF FISHES. Taxonomic studies of the marine fishes of the Gulf of Mexico, Caribbean Sea, and the Atlantic Ocean occupied Curator Woods, who published a short paper describing a new species (see page 106). Associate Marion Grey carried on her survey of the fish fauna found below a depth of 900 meters, completed the final report on the Family Gonostomatidae for *Fishes of the Western North Atlantic* (a series of volumes published by Sears Foundation), and published several short papers including descriptions of three new genera (see page 105).

DIVISION OF INSECTS. Curator Wenzel's monograph on the genus *Margarinotus* (histerid beetles) has been delayed while awaiting receipt of critical material from Europe. However he has been studying an exceptional collection of histerid beetles that live with army ants. In this remarkable collection, which was made in Panama by Carl Rettenmeyer (University of Kansas) in connection with studies on the biology of army ants, are a half dozen new

genera and about twenty new species. Curator Wenzel has also prepared several short papers on histerid beetles from the Mascarene Islands and commenced a study of the bat flies (family Streblidae) of Panama in collaboration with Captain Vernon J. Tipton.

Associate Curator Dybas has made good progress on his revision of the Limulodidae, a family of minute beetles that live mostly with army ants in the American tropics. His two papers on the population ecology of periodical cicadas, based on data gathered in 1956, are being readied for publication (Curator Davis is co-author of one and Dr. Monte Lloyd, currently at Oxford University, is co-author of the other). He completed a paper describing a new genus of blind ptiliid beetle from a bat cave in South Africa. Research Associate Charles H. Seevers continued work on his monograph on the rove beetles that live with army and driver ants. Associate Harry G. Nelson studied the classification of dryopoid water beetles of the genus *Elsianus*. Associate Lillian A. Ross continued her study of spiders.

DIVISION OF LOWER INVERTEBRATES. Curator Emeritus Haas published several short papers on various phases of mollusks this year and studied, with Curator Solem, a collection from British Honduras. Curator Solem saw publication by the Museum of his monograph on New Hebridean nonmarine mollusks with essay on zoogeography of these land and fresh-water snails. Additional publications dealt with New Hebridean marine mollusks and Mexican and Pacific inland landsnails (see page 106). New research projects resulted in completion of his studies of Central and South American Pomatiasid landsnails and of Venezuelan material from Genoa Museum and partial completion of studies on more New Hebridean material and on hydrobiid snails from Lake Pontchartrain, Louisiana. Assistant Ernest J. Roscoe, who joined the staff late in the year, continued studies on nonmarine recent and Pleistocene mollusks from the Great Basin area of North America.

DIVISION OF ANATOMY. Curator Davis continued his studies of the comparative anatomy and evolution of the Carnivora. In collaboration with Associate Waldemar Meister he began a study of the placenta and fetal membranes of the hedgehog and continued a study of the fluorescence of hair in rats (genus *Rattus*) in collaboration with Dr. Gerhart Rebell of Colgate Biological Research Division. Curator Davis also prepared the articles "Mammal" and "Cat" for a revision of the *Encyclopaedia Britannica*, and thirty-seven articles on mammals for the new McGraw-Hill *Encyclopedia of Science and Technology*. Research Associate R. M. Strong continued his studies on the anatomy of birds.

PHOTOGRAPH OF
A PRAYING MANTID (ARROW)
IN PANAMA SITTING ON A
LEAFY TWIG WHERE ITS
PROTECTIVE COLORING
CONCEALS IT



THE SAME INSECT
IN OUR COLLECTIONS
MOUNTED ON PIN
AND LABELED

ONE OF THE PIN LABELS
STATES THAT THE INSECT
WAS PHOTOGRAPHED ALIVE
(THE PHOTOGRAPH IS
SHOWN ABOVE)



Accessions—Zoology

New material for study continues to come in at a gratifying rate, as these figures show: mammals—about 1,350 specimens; birds—6,378 specimens; amphibians and reptiles—28,902 specimens; fishes—4,100 specimens; insects—63,959 specimens; mollusks—105,000 specimens; and anatomical material—773 specimens.

We were particularly fortunate in being able to purchase the Dr. E. H. Taylor Collection of reptiles and amphibians of about 25,000 specimens, one of the most important private collections in existence. Very few herpetologists have worked on as large a proportion of the world's fauna in this field as has Dr. Taylor, and this is the collection that he gathered in the course of his work. A large part of the collection is from Mexico and Central America. About 1,000 specimens are from Ceylon, and as many from Siam. Other areas represented include the Philippine Islands, Malaya, Liberia, Brazil, India, and China.

Another outstanding purchase was the Fred Button Collection of mollusks, which contains about 15,000 sets of shells. The collection is particularly strong in shells of western North America and in specimens obtained by exchange from collectors in Australia and in France. Its fine cowrie shells, with those already in our collection, give us 150 of the 168 known species of cowries and make our representation of cowries the most complete in any American museum.

Our entomologists welcomed the purchase of 2,487 minute beetles from New Caledonia and other South Pacific islands, newly collected by Borys Malkin, among which are histerid beetles that will enable Curator Wenzel to elaborate his earlier work on New Caledonia members of this group (and to supplement his forthcoming work on the Micronesian forms) and feather-wing (Ptiliid) beetles that will be useful to Associate Curator Dybas in his work on the Micronesian feather-wings. A further 10,919 feather-wing beetles that were sieved from the soil and leaf litter at localities in 17 states east of the Mississippi River was a gift from Walter Suter and John A. Wagner, of Northwestern University.

Some other notable accessions from far and near include 690 mammals and 658 birds collected by Dr. Orlando Park and his students at Northwestern University (gift); 859 birds of Egypt from Research Associate Hoogstraal (gift); 900 fishes, including some paratypes of the Pacific, from University of California at Los Angeles (gift); 104 fishes of Borneo from Phui Kong Chin (gift); 581 rove beetles, including types of 52 species, from Research Associate Seevers (gift);



Sonoda megalophthalma Grey

TYPE SPECIMENS OF
THE GENERA OF FISHES THAT
MARION GREY, ASSOCIATE, NAMED FOR
ASSISTANT PEARL SONODA
AND CURATOR LOREN P. WOODS

Woodsia nonsuchae



454 butterflies of North America from John A. Wagner (gift); 2,088 leaf beetles (Cassididae) and 3,717 histerid beetles of Europe and the Old World tropics (purchase); 1,021 long-horn wood-boring beetles and 1,749 other beetles of Brazil (purchase); about 9,500 worldwide mollusks from Curator Solem gift); and about 4,000 choice marine shells from Museum Contributor Dr. Jeanne S. Schwengel (gift).

A gift of 8 paintings done by chimpanzees and 2 by a child came from Mrs. Emily Crane Chadbourne, a Museum Contributor. One picture is the work of the well-known London chimpanzee Congo who was featured in a London show some years ago and whose work has been discussed in several scientific papers, one was done by Betsy of the Baltimore Zoo whose output attracted considerable newspaper attention recently, and six are by a relatively unknown young chimpanzee whom Mrs. Crane found doing commercial work in a Washington department store. These pictures, which vary in size from 12 by 16 inches to 20 by 25 inches and are oils or watercolors on board or paper, are arrangements of bright colors in nonrepresentative designs. These concrete examples of chimpanzee behavior are of considerable interest as samples of what the highest of the great apes can do in a sphere that is usually considered one of the finest expressions of mankind.

Care of the Collections—Zoology

The painstaking preparation required by some animal specimens is nowhere better illustrated than in the cleaning and labeling of skulls and skeletons. A dermestid beetle colony, housed in a bug-proof room on the ground floor, helps with some smaller specimens (the beetles eat the flesh off the bones). Larger mammals (a Péré David deer was the largest single item cleaned this year) may be boiled to soften the flesh. But in any case there are always bits of flesh or tissue to be picked or scraped or washed off. The cleaned skeletons are bleached, and then the bleach is neutralized and the bones are washed. Finally the bones are dried. Skulls and disarticulated skeletons are numbered in India ink, or if the skeleton is kept articulated a numbered tag is attached (the number of course refers to an entry in a catalogue where full details of the place, date, and collector are available). Then the specimen is filed in a vial, box, or cabinet drawer ready for study by someone interested in bats, elephants, snakes, hummingbirds, or fishes, as the case may be. Osteologist Sophie Andris, who does much of this work, prepared 49 skeletons, about 800 skulls, and 10 invertebrates.

Temporary summer assistants, volunteer workers (see page 26), and Antioch College students (Douglas R. G. Roycroft, Miss Aria Ruks, Miss Lise B. Thomsen, and Miss Linda M. Turkel) aided greatly in the routine care of collections, the details associated with curating them, and the incorporation of new material into them.

Rearrangement of the bird and mammal collections in the steel cases purchased last year was continued. Tanner Dominick Villa and Assistant Taxidermist Mario Villa prepared mammal skins for the study collections and cleaned and mothproofed a number of old, large, flat study-skins. Also much time has been spent in search of improved methods of museum taxidermy.

Assistant Marx integrated into the collection the newly purchased Taylor Collection of amphibians and reptiles (see page 72) with the assistance of Miss Janet Wright, who also did considerable work in arranging the pamphlet collection. Assistant Pearl Sonoda not only saw to realcoholing the fish collection but also checked and listed the fish in the large monel fishtanks. Assistant Phyllis Wade carried on routine work for the Division of Anatomy while Curator Davis was on a field trip in Malaya, did much of the routine curating of the collection during the year, and made illustrations.

Assistant August Ziemer inspected and fumigated the insect collections as well as prepared many thousands of specimens for the collections. Research Associate Alex K. Wyatt continued to identify, combine, and integrate our various collections of North American butterflies and moths, Research Associate Seevers spent considerable time curating parts of the Bernhauer Collection of rove beetles, and Associate Curator Dybas saw to the transfer of a large segment of the Brancsik Collection of beetles into the collection.

It was found that, unfortunately, a new shipment of cork used to line insect-storage trays was highly corrosive to insect pins. Investigation by the staff and by chemists of Morningstar-Paisley, Inc. (manufacturers of adhesives) showed that this was caused by a paste used by the bindery firm that covered our cork with flint paper—the paste contained humectants (water-drawing chemicals) and corrosive agents. Specifications for corrosion-free cork, paste, and covering paper have been drawn up by the staff of Morningside-Paisley.

Assistant Roscoe has taken over the final processing of additions to the mollusk collection, which hitherto has been carried on entirely by Curator Emeritus Haas and Curator Solem with the aid of temporary assistants. The half million new specimens received in the past two years have been unpacked and sorted roughly. During the year 12,500 sets of mollusks representing about 115,000 specimens were completely processed and integrated into the collection.

Exhibits—Zoology

The installation early in the year of the case containing the giant Galapagos tortoise and the giant alligator snapping turtle completes the revision of the amphibian and reptile exhibits in Albert W. Harris Hall (Hall 18), which now gives a synopsis of the kinds of amphibians and reptiles and an indication of how and where they live. The revision of this hall by the Division of Amphibians and Reptiles, which was started some years ago, has currently been the responsibility of Artist Joseph B. Krstolich aided by Assistant Taxidermist Peter Anderson, with Taxidermist Carl W. Cotton doing the more recent plastic models.

The synoptic series of birds of the world in Boardman Conover Hall (Hall 21) moved toward completion with the installation of an exhibit showing twenty bird families from swifts, nightjars, and hummingbirds to hornbills. Taxidermist Cotton and Assistant Taxidermist Anderson were responsible for the installation of this exhibit, which was planned by the Division of Birds (Staff Artist E. John Pfflner advised on design and supplied the paintings). Another exhibit showing bird families from pigeons and parrots to owls is nearly complete.

The exhibit of shells from the Yarrington Collection that was on display as a special feature in Stanley Field Hall last year (see Annual Report 1958, page 26) has been placed in Hall M (Lower Invertebrates), where it occupies a central position as a permanent exhibit.

The centennial of the publication of Charles Darwin's *On the Origin of Species by Means of Natural Selection* was commemorated by the Museum with a special exhibit in Stanley Field Hall from November 1 through the winter months (see page 25). Part 1 of the exhibit was concerned with the 1831-36 round-the-world voyage of H.M.S. *Beagle* on which young Darwin began to formulate his ideas of evolution, Part 2 illustrated the three important sources of evidence for evolution (paleontology, embryology, and comparative anatomy) and Darwin's four propositions supporting his theory of natural selection, Part 3 was devoted to Darwin's main writings, and Parts 4, 5, and 6 gave examples used by Darwin in the *Origin*. Pictorial presentation was supported by books, specimens, facsimiles of pertinent passages from books, and Darwiniana from our collections. The exhibit, which was prepared under direction of the Staff Artist, was planned by Chief Curator Rand and Curator Davis.

Exhibits in progress include a large fish-mobile, an exhibit of living fossil-fishes, and plans and layouts for a revision of our systematic exhibits of mammals.

LIBRARY OF THE MUSEUM

PUBLIC RELATIONS

CO-OPERATION

SCIENTIFIC SOCIETIES

PHOTOGRAPHY AND
ILLUSTRATION

MOTION PICTURES

PUBLICATIONS AND
PRINTING

MAINTENANCE, CONSTRUCTION
AND ENGINEERING



GOLD
PENDANT

COLOMBIA

HEIGHT
9 INCHES

LIBRARY OF THE MUSEUM

Altogether 9,955 items were obtained in the Library during the year by purchase, exchange, and gift. More than 700 items were disposed of by exchange and sale (proceeds from sale of duplicates amounted to more than \$550, a part of which has been applied as credits to our accounts with bookdealers). The following selected titles are typical of the many acquisitions during the year: *Species des Hyménoptères d'Europe et d'Algérie*, 1879-1903 (by Edmond André), seven volumes and one supplement, is the definitive work on the hymenoptera of the western paleoarctic region; *Index Litteraturae Entomologicae*, 1928-29 (by Walther Horn and Sigmund Schenkling), four volumes, includes many additions and corrections to *Bibliotheca Entomologica* (by Hermann August Hagen) and also the works published in 1862 and 1863 to fill the gap between Hagen and *Zoological Record* (v. 1, 1864); and *Nouveau Muséum d'Histoire Naturelle, Volume 1, Règne animal, Classe des quadrupèdes vivipares ou mammifères*, 1806 (by B. E. Manuel) is difficult to obtain and forms an important addition to the collection. The Library benefited from the generosity of the donors listed on pages 124 and 125.

A resignation and the absence of a staff member in military service have limited the progress during the year of cataloguing and classifying, and a backlog of unprocessed material has accumulated. As a temporary measure each uncatalogued title is represented by an author and a title entry in the main card catalogue and uncatalogued serials are listed in a separate file. In a large and complex library of exclusively scientific and technical literature full attention of one cataloguer is required for day-to-day maintenance of the card catalogue. During the first half of the year the presence of an additional cataloguer enabled the division to make good progress in the number of volumes processed, and all materials received for which printed Library of Congress cards are available were catalogued, classified, and sent to the shelves of the general and departmental libraries. Original cataloguing was done for many monographs and serial publications, including an accumulation in the Russian and Polish languages. Analytics have been made for all monographs appearing in serial publications.

As a result of increased space in the Anthropology Library, volumes temporarily shelved in the General Library were transferred there and catalogue cards provided. The Laufer Collection of works in occidental languages was moved to the East Asia Library in the Department of Anthropology with covering catalogue cards. The East Asia catalogue now contains cards for 728 completely catalogued

titles (comprising thousands of volumes) and a temporary file of 893 titles (also comprising thousands of volumes). A considerable number of books and periodicals on the Far East that have not been reclassified remain in the General Library.

Curator Kenneth Starr and Dr. Hoshien Tchen (both of the Department of Anthropology) continued their program of adding to the East Asia Library specialized bibliographic materials of two types in both oriental and occidental languages: (1) general works on anthropology and culture-history of China and other regions of East Asia and (2) technical books on Chinese rubbings and the stone and bronze objects from which they are taken. During the year Dr. Tchen catalogued 60 titles comprising some 450 volumes.

Because of its very nature a research library must grow. The physical expansion of the Botany Library is a problem that will need solution within the next few years. The overcrowded section housing materials classified under the Library of Congress system has been temporarily adjusted by a general shifting of all the volumes in the Botany Library and removal to the General Library of material not in regular use by the Department of Botany. This strenuous and painstaking work was done by members of the Botany staff.

Because many of the titles acquired by the Museum Library in its specialized fields are not reported by other libraries, this Library during the past year has initiated the policy of contributing a copy of each original catalogue card for books of 1956 and later imprints to the National Union Catalog for inclusion in *Library of Congress Catalog—Books; Authors*, in addition to reporting all entries of earlier imprint date to the National Union Catalog. Locations of all copies of each title reported are indicated here, and this service is particularly important for works that are held uniquely by a single library. Analytics for monographs in series that are not analyzed by the Library of Congress also were reported. Altogether 546 cards were copied and submitted during the year, including many in Chinese and other oriental languages.

After the Rare Book Room was renovated and rearranged in 1958, a complete card file for all volumes in this collection was made and filed in the room. This card file contains 308 entries

A total of 10,559 cards was made for the card catalogue, representing 1,429 titles and 4,138 volumes. Additionally, 1,212 cards were made for the Authorities File to be used as reference by the cataloguing staff. Altogether 1,078 monographs were analyzed. Translations into English totaled 310 (the task of translating correspondence and printed material for members of the Museum staff is shared by the Associate Librarian with the Librarian and Reference Librarian).

The Library received an increased number of requests for materials on biological science and anthropology, especially on scientific developments in countries behind the Iron Curtain. This year, more than in the past, visiting scholars used the Museum Library. A marked increase was noted in the use of our facilities by university students, many of whom were doing graduate work, and by others whose projects were of a scholarly nature. Miss Eugenia Bernoff, Reference Librarian, is especially capable in helping readers to find what they are seeking and in giving accurate information over the telephone. Her ability to work with foreign languages is especially valuable in these services. More than 2,170 reference inquiries were handled during the past year and more than 2,000 volumes were used in the General Reading Room by visitors (a record of volumes used by staff members is not kept). Miss Louise Friedal and Miss Hermine F. Tworkov, Antioch College students, assisted in clerical work.

Among arrangements for getting materials necessary for an adequate research library is the exchange system (see page 99). Continued effort is made by our Library to acquire systematically, through exchange on a worldwide scale, currently issued publications of learned societies, academies, and institutes, and our network of exchange sources now extends into regions where research has been limited or stopped until recent years. Active exchanges of publications total 991 in comparison with 401 paid subscriptions. A systematic review of periodical subscriptions was made for transfer, wherever possible, to the exchange list, and some economies were achieved thereby.

The transfer of a large part of the map collection from storage crates to the new map cases in the General Reading Room was completed during the year. Some 38,000 maps were sorted, filed, and arranged in systematic order under continent, country, locality, and city by Chih-wei Pan, an assistant, and a card file has been made.

The Library continued to make materials available to other libraries through interlibrary loans. In return we enjoyed the benefits of this important service that enables libraries to supplement their own resources with those of other institutions. A total of 320 books was borrowed and lent. The use of photostats and microfilms increased notably during the year.

The Library's present rate of binding is keeping pace with current accretions of unbound materials and is reducing the arrearage of materials in need of rebinding and repair. Altogether 1,158 volumes were prepared for binding during the year and numerous pamphlets were placed in binders. Repairs were made in the Library on 901 volumes at a saving in commercial-binding costs of approximately \$2,500, and 3,338 volumes were lettered with the electric stylus.

CO-OPERATION WITH OTHER INSTITUTIONS

In co-operation with the Department of Anthropology of the University of Chicago the Museum presented in November an illustrated lecture on "The Art of Western New Guinea and Its Cultural Background" by Dr. Simon Kooijman, Curator of Rijksmuseum voor Volkenkunde in Leiden, who, while in the United States, also lectured at the Museum of Primitive Art in New York and at Harvard University (when in Chicago he studied the extensive New Guinea collections of ethnological and art specimens in the Museum's Pacific Science Laboratory).

The course in museology, which covers all details of curatorial duties in a museum, was continued at the Museum by our anthropologists in co-operation with the Department of Anthropology of the University of Chicago. Phillip H. Lewis, Assistant Curator of Primitive Art, taught a six-week course in primitive art in the exhibition galleries of the Museum during July and August for students from the School of the Art Institute of Chicago and, in April, gave a gallery lecture for a group of students brought to the Museum from Manteno (Illinois) State Hospital.

Dr. Kenneth Starr, Curator of Asiatic Archaeology and Ethnology, gave a lecture at the University of Michigan on Chinese rubbings and demonstrated the art on an educational program sponsored by the television center of the University of Michigan. Dr. John B. Rinaldo, Assistant Curator of Archaeology, spoke at a meeting of the archaeology society at the University of Wisconsin, Assistant Curator Lewis lectured at Northwestern University and at the School of the Art Institute of Chicago, and Dr. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, spoke at the Borg-Warner Research Center of the Scientific Research Society of America. Dr. Donald Collier, Curator of South American Archaeology and Ethnology, George I. Quimby, Curator of North American Archaeology and Ethnology, and Curator Force taught courses at the University of Chicago. Curator Force, who was appointed to a committee to assist the National Planning Board of Century 21 Exposition to be held in Seattle in 1962, attended committee meetings in Philadelphia and New York City. Dr. Paul S. Martin, Chief Curator of Anthropology, and Assistant Curator Rinaldo took part in a seminar on ceramics at the Museum of Northern Arizona.

Dr. Theodor Just, Chief Curator of Botany, arranged for a seminar to be given in the Department of Biology at Northwestern University by Dr. A. J. Kostermans, professor of botany at the University of Indonesia, and introduced Dr. Kostermans. Chief

Curator Just addressed the Third Annual Conference of Midwest College Biology Teachers held at the University of Notre Dame. Dr. C. Earle Smith, Jr., Associate Curator of Vascular Plants, spoke before a biology seminar at Northwestern University.

The graduate course in vertebrate paleontology of the University of Chicago was held in the Museum as usual by Dr. Everett C. Olson, Professor of Vertebrate Paleontology at the University and Research Associate on the Museum's staff. In December Professor Ralph Johnson of the University of Chicago brought his class in invertebrate paleontology to the Museum for a lecture by Dr. Rainer Zangerl, Curator of Fossil Reptiles, and Dr. Eugene S. Richardson, Jr., Curator of Fossil Invertebrates, on paleoecological principles as illustrated in the Mecca project (see page 59).

Curator Zangerl lectured on two occasions to classes in zoology that visited the Museum from Indiana University and addressed a zoology seminar at Indiana University on the paleoecology of the Mecca shale in Parke County, Indiana. Curator Richardson spoke on the Mecca project before the Northern (Illinois) Biology Teachers Association. Albert W. Forslev, Associate Curator of Mineralogy, aided several times in identifying physical and chemical evidence for the Crime Detection Laboratory of the Chicago Police Department. The Museum supplied samples of coals and peats to the Argonne National Laboratory (Lemont, Illinois) for use in a study of radioactive mineral content of natural hydrocarbons.

Rupert L. Wenzel, Curator of Insects, and Alex K. Wyatt, Research Associate in the Division of Insects, are serving as co-operating specialists in the insect-detection program of the United States Department of Agriculture (Curator Wenzel is a specialist on classification of histerid beetles and of flies parasitic on bats, and Research Associate Wyatt is a specialist on Heliothine moths). Curator Wenzel continued to co-operate with the Board of Commissioners of Agriculture and Forestry of the State of Hawaii in providing identifications of the histerid beetles that are being introduced into Hawaii from various parts of the world in an effort to control the horn fly, a pest that is responsible for greatly reduced production in the dairy industry. Curator Wenzel has been appointed a Research Associate in the Department of Biology at Northwestern University. D. Dwight Davis, Curator of Vertebrate Anatomy, continued as Lecturer in the Department of Zoology at the University of Chicago.

Classes in botany, paleobotany, systematic botany, and biology came to visit the Museum's herbaria from the University of Chicago, University of Illinois, State University of Iowa, Loyola University,



CURATOR DENISON
IDENTIFIES A COLLECTION
OF FOSSIL FISHES
FROM MONTE BOLCA IN
NORTHERN ITALY

Northwestern University, and Western Michigan University. A class in field zoology from the University of Notre Dame visited the Division of Amphibians and Reptiles, a biology class from the University of Illinois visited the Division of Fishes, and classes in field biology from Northwestern University and Roosevelt University visited the Division of Insects.

Among other universities and colleges that used the facilities of the Museum were Chicago Teachers College, Illinois Institute of Technology, De Paul University, George Williams College, McMaster University (Canada), Morton Junior College, North Park College, and Wheaton College. Supervised classes from art schools continued to use the Museum exhibits as a part of their regular classroom work in sketching, painting, and modeling, and results of this work from classes of the School of the Art Institute of Chicago were placed on special exhibition in the Museum in May (see page 25).

The Chicago Area Science Fair (sponsored by the Chicago Teachers Science Association), a show in which students of grades 6 through 12 from all schools within a 35-mile radius of Chicago are eligible, was held in the Museum on a Saturday in May. Elmhurst (Illinois) Teachers Institute met in the Museum in September to acquaint its members with the programs of the Museum (more than a hundred teachers were present). Facilities at the Museum for meetings were used during the year by various organizations working in fields related to the scope of the Museum, among them the Illinois Audubon Society, Illinois Orchid Society, Kennebec Club, and Nature Camera Club. Under the co-operative plan adopted in 1946 by this Museum and Antioch College (Yellow Springs, Ohio) fifteen young men and women were employed in 1959 by the Museum.

Among visitors in the Department of Anthropology during the year were Dr. Charles O. Betscholt and Dr. Victor F. Lenzer, University of California at Los Angeles; Barone Professor Alberto Carlos Blanc (Direttore Dell' Istituto di Paletnologia), Dell' Universita (Rome); Dr. F. H. Bordes, University of Bordeaux (France); Dr. Stephen Borhegyi, Dr. Robert Ritzenthaler, Lee Parsons, and William Hurley, Milwaukee Museum; Dr. Edwin H. Bryan, Jr., Bernice P. Bishop Museum; Dr. Schuyler Cammann, University of Pennsylvania; Dr. Daniel J. Crowley, University of Notre Dame; Philip Dedrick, Rockford College; Dr. R. A. Dedrick, Fiji Museum (Fiji Islands); Joseph J. Dobrich, Washington, D.C.; Emilio Estrada, Guayaquil, Ecuador; Dr. Henry Field, Peabody Museum; Dr. Douglas Fraser, Robert K. Saxon, and Mrs. Carol M. Suchinsky, Columbia University; Dr. Gordon D. Gibson and Dr. S. H. Riesenbergh, Smithsonian Institution; Professor William Godfrey and Pro-

fessor Andrew Whiteford, Beloit College; Dr. James B. Griffin (Director), Museum of Anthropology (University of Michigan); Dr. Jean Guiart, University of Paris;

Professor S. Howard Hansford, University of London; Sir Julian Huxley and Francis Huxley, London; Professor Kao Ch'ü-hsün, Taiwan National University; Dr. A. L. Kroeber, Berkeley, California; Dr. L. S. B. Leakey, Nairobi, Kenya; Dr. Hubert W. Lechie, American University; Father Edwin McManus, S. J. Trust Territory of the Pacific Islands; Miss Alice Marriott, University of Oklahoma; Ronald J. Mason, Neville Museum; Sister Marie Jose di Mendonca, Lisbon, Portugal; Dr. Cornelius Osgood, Yale University; Myron O'Higgins, Museum of Primitive Art; Dr. Satya Prokash, Jaipur, India; Dr. Carlos Samayoa, Institute for Anthropology and History (Guatemala); Dr. Karl Schlesier, Dusseldorf, Germany; and Dr. Antonio Tejada, Jr. (Director), National Museum of Archaeology and Ethnology (Guatemala).

Visiting botanists included Avadh Agarwal, Lucknow, India; Brother Alfred, De La Salle College (Manila); Rev. Edward Akso-maites, Putnam, Connecticut; Dr. C. A. Arnold and Dr. R. H. Wagner, Jr., University of Michigan; F. K. Ballard, United States Customs Laboratory (Chicago); Professor Harriette V. Bartoo, Western Michigan University; Dr. J. W. Baxter, University of Wisconsin Extension; Dr. E. O. Beal, North Carolina State College; Dr. C. R. Bell, University of North Carolina; Professor G. R. Bernard, Dr. R. E. Gordon, and Rev. E. C. Resconich, University of Notre Dame; Dr. A. L. Bernardi, University of the Andes (Venezuela); Dr. A. S. Boughay, University College of Rhodesia and Nyasaland; Dr. Max Britton, Office of Naval Research (Washington, D.C.); Miss H. Francia Chisaki, Dr. Wayne Fry, Dr. Albert Herre, and Dr. Mildred Mathias, University of California; Dr. Wm. B. Cooke, Taft Sanitary Engineering Center;

Dr. and Mrs. W. A. Daily, Indianapolis; M. P. DeVos, University of Stellenbosch (South Africa); Dr. M. J. Dorsey, Mr. and Mrs. R. Mohlenbrock, and Dr. Wilson N. Stewart, University of Illinois (Urbana); H. V. Dunkle, Galesburg, Illinois; Dr. John D. Dwyer, St. Louis University; Dr. R. E. Edgren, G. D. Searle and Company (Skokie, Illinois); Dr. and Mrs. Gunnar Erdtman, Laboratory of Palynology (Stockholm); Dr. H. Fabris and Dr. S. A. Guarrera, Museo de la Plata (Argentina); M. G. Fenwick and J. H. Grosbogs, Northern Illinois University; Dr. Margaret Fulford and Miss Jane Taylor, University of Cincinnati; Dr. John Funkhauser, Tulsa, Oklahoma; Dr. G. W. Gillett, Miss Ann Waterman, and Clifford Wetmore, Michigan State University; Dr. L. J. Grambast, University of Paris;

Dr. Charles Heimsch, Miami University (Ohio); Dr. C. B. Heiser, Jr., Indiana University; A. J. Hendricks, Southern Illinois University; Professor R. L. Hulbary, State University of Iowa; Dr. Juan Hunziker, Buenos Aires, Argentina; Dr. Hugh Iltis, Dennis Knight, Dr. Jonathan Sauer, and P. F. Stickney, University of Wisconsin; R. O. Kapp, Alma, Alma College; Dr. David D. Keck, National Science Foundation (Washington, D. C.); Hari Kishore, Simla, India; Dr. R. M. Kosanke, Illinois Geological Survey; Dr. B. F. Kukachka, Forest Products Laboratory (Wisconsin); Professor R. J. Kuster, Valparaiso University; Dr. Ida Langman, University of Pennsylvania; Dr. G. A. Leisman, Kansas State Teachers College; Dr. Harlan Lewis, University of California at Los Angeles; Robert Long, University of Massachusetts; Dr. T. G. Mahabale, University of Poona (India); Dr. P. N. Mehra, Panjab University (India); Dr. Eugenia Navas, University of Chile; Bernard Nebel, Earlham College; Harold Nogle, Port Arthur, Texas; Dr. Frederick Pannier, Universidad Central (Venezuela); H. W. Pfeifer and Dr. R. E. Woodson, Missouri Botanical Garden; Dr. R. W. Pohl, Iowa State College; Dr. R. P. Quinn, Abbott Laboratories (Chicago); Dr. N. W. Radforth, McMaster University; Dr. Dillwyn Rogers, Augustana College; Dr. Velva Rudd, United States National Museum; Dr. E. D. Rudolph, Wellesley College;

Dr. Linna Azhyadeè Salom, San José, Costa Rica; Rolf Schäfer, University of Göttingen (West Germany); Roland Schoenike, University of Minnesota; A. Schoenwetter, University of Arizona; Dr. J. M. Schopf, United States Geological Survey (Ohio State University); Dr. R. E. Schultes, Harvard University; Dr. Olof Selling, Naturhistoriska Riksmuseum (Stockholm); David G. Sharpe, Putnam, Connecticut; Rev. Urban J. Siegrist, St. Joseph College; Dr. Anton Slysh, Syracuse University; Tom Soderstrom, Yale University; Allen Stevenson, Hunt Library (Pittsburgh); Dr. K. R. Surange, Sahni Institute of Paleobotany (Lucknow, India); Dr. A. F. Szczawinski, Museum of Natural History (Vancouver); Miss Betty Venrick, Pomona College; Dante Ventresca, Marion College; Dr. Grady L. Webster, Purdue University; Dr. Louis O. Williams, Plant Industry Station (Beltsville, Maryland); Archie F. Wilson, Summit, New Jersey; and Dr. D. O. Wolfenbarger, University of Florida.

Visiting geologists included Dr. Walter Auffenberg, University of Florida; Dr. Robert S. Bader, University of Illinois (Urbana); Dr. Charles Bechtol, University of California at Los Angeles; Craig C. Black, Dr. George Gaylord Simpson, and Dr. Ernest E. Williams, Museum of Comparative Zoology; H. J. Champagne, National Museum of Canada (Ottawa); Dr. John Clark, South Dakota School

of Mines and Technology; William A. Clemens and Richard Estes, University of California; Dr. Gordon Y. Craig, University of Edinburgh (Scotland); Robert C. Feuer, University of Michigan; Dr. Kurt Frederiksen, Geological Survey of Sweden (Stockholm);

Donald J. Herold, Davenport (Iowa) Public Museum; Dr. Claude Hibbard, University of Michigan; Dr. Marie L. Hopkins, Idaho State College; Dr. Nicholas Hotton III, United States National Museum; Dr. L. S. B. Leakey, Coryndon Memorial Museum (Nairobi, Kenya); Dr. Ernest Lundelius, Jr., University of Texas; Mrs. Doris Macnaughton, McGill University (Montreal); John H. Ostrom, Beloit College; Roy Reinhart, Miami University (Ohio); Howard Sanders, Woods Hole Oceanographic Institute; Dr. Robert E. Sloan, University of Minnesota; Dr. Thompson M. Stout, University of Nebraska; Dr. Georges Vandebroek, University de Louvaine (Belgium); and Dr. T. Stanley Westoll, University of Durham (England).

Visiting zoologists included Dr. John W. Aldrich and Dr. Daniel M. Cohen, United States Fish and Wildlife Service (Washington, D.C.); Donald H. Baeppler, Robert E. Elbel, Dr. Cluff Hopla, and W. H. McCarley, University of Oklahoma; George Barker, Mt. Pleasant, South Carolina; Dr. Charles O. Bechtol, University of California at Los Angeles; Dr. Edward Becker, Dr. Henry Howden, and Dr. B. V. Peterson, Canada Department of Agriculture; Dr. William H. Behle, University of Utah; Dr. S. Stillman Berry, Redlands, California; Dr. Argentino Bonnetto, Buenos Aires; Professor José I. Borrero, Bogotá, Colombia; Miss Margaret G. Bradbury, Hopkins Marine Station; John Burns, William Z. Lidicker, Jr., and Dr. Frank A. Pitelka, University of California; Dr. Joseph Camin, Dr. William Duellman, and Carl Rettenmeyer, University of Kansas; George Campbell, Detroit; Dr. Nell B. Causey, University of Arkansas;

Jorgen Dahl, Department of Fisheries, Charlottenlund, Denmark; Dr. Rezneat M. Darnell, Marquette University; Miss Mercedes Delfinado, Manila; Dr. Clarence Dineen, St. Mary's College; Robert C. Feuer, Dr. Theodore Hubbell, Douglas Robinson, and Dr. Robert W. Storer, University of Michigan; Dr. Robert L. Fleming, Kathmandu, Nepal; W. I. Follett, California Academy of Sciences; Dr. M. J. Fouquette, Dr. Coleman Goin, and Dr. Rodger D. Mitchell, University of Florida; Dr. Herbert Friedmann, United States National Museum; José M. Gallardo, Museo Nacional (Buenos Aires); Dr. Carl Gans, University of Buffalo; Arnold Gluge, University of Southern California; Dr. Robert Graves, Flint (Michigan) Junior College; Dr. Georg Haas and Professor Oskar Theodor, Hebrew



"TREE FINDER" PROGRAM FOR CAMP FIRE GIRL DAY

ASSISTANT ZIEMER HELPS WITH BOY SCOUT HOBBY DAY



University (Jerusalem); C. F. Harbison, San Diego Museum of Natural History; Dr. Carl L. Hubbs, Scripps Institution of Oceanography; Dr. D. K. Kevan, MacDonald University (Montreal); Dr. David Kistner, Chico (California) State College; Dr. Karl Krekeler, Valparaiso University; Dr. Boonsong Lekagul, Thailand; Dr. James List, Ball State Teachers College;

H. A. MacEwan, Battle Creek, Michigan; Dr. Borys Malkin, University of Minnesota; Mr. and Mrs. N. B. Marshall, British Museum (Natural History); Dr. William V. Mayer, Wayne University; Dr. Ernst Mayr, Museum of Comparative Zoology; Dr. Charles A. McLaughlin, Los Angeles County Museum; Dr. T. Michaud, Carroll College; Dr. William Milstead, University of Kansas City; Dr. Edgardo Mondolfi, National Museum (Venezuela); Captain Muñoz (Administrator), Seal Islands, Uruguay; Dr. Oscar T. Owre, University of Miami (Florida); Luis B. Peña, Santiago, Chile; Father Francisco S. Pereira, São Paulo, Brazil; Dr. Randolph L. Peterson, Royal Ontario Museum of Zoology; Dr. Cornelius B. Philip, Rocky Mountain Laboratory; Dr. Holgar Poulsen, Copenhagen Zoo;

Stanley Rand, Harvard University; Dr. Gerbert Rebell, Colgate Biological Research Division; Dr. Frederick Rindge, American Museum of Natural History; I. A. Ronquillo, Manila; Dr. Jerome Rozen, Ohio State University; Dr. Hans Schneider, University of Tübingen (Germany); Gilberto Silva-Taboada, Cuban Bat Guano Corporation (Havana); Dr. R. H. N. Smithers, National Museum at Bulawayo (Southern Rhodesia); Miss Angela Spadaro, Charleston Museum; Dr. Victor G. Springer, Florida State Board of Conservation; Ralph Stark, Lebanon, Indiana; Dr. G. M. Stecher, Cleveland; Dr. Harrison M. Tietz, University of Pennsylvania; Dr. Enrico Tortonese, Museo Civico di Storia Naturale (Genoa); Dr. Raul Vaz-Ferreira, University of Uruguay; Dr. Howard Weems and Robert Woodruff, Florida State Plant Board; Dr. N. R. Whitney, Rapid City, South Dakota; and Dr. Telford Work, Rockefeller Foundation Virus Laboratories (New York).

In addition, we had, of course, many visitors from the Chicago area to all scientific departments. Among these were members of the faculties of local educational institutions, including Northwestern University, The University of Chicago, Chicago Teachers College, Loyola University, Roosevelt University, and Illinois Institute of Technology. Sir Charles Darwin, of Great Britain, also visited the Museum during the Darwin Centennial Celebration of the publication of his grandfather's famed book *The Origin of Species* (see pages 22 and 92).

ACTIVITIES OF STAFF MEMBERS IN SCIENTIFIC AND PROFESSIONAL SOCIETIES

Dr. Paul S. Martin, Chief Curator of Anthropology, Dr. Donald Collier, Curator of South American Archaeology and Ethnology, and George I. Quimby, Curator of North American Archaeology and Ethnology, attended the annual meeting in Salt Lake City of the Society for American Archaeology and the annual meeting in Mexico City of the American Anthropological Association. Allen S. Liss, Custodian of Collections, attended the meeting in Carbondale, Illinois, of the Midwest Archaeological Conference and the meeting in Urbana of the Illinois Archaeological Survey, of which he is a member of the board of directors.

Dr. Theodor Just, Chief Curator of Botany, was host to a meeting in the Museum in February to plan the program for the Ninth International Botanical Congress that was held later in the year in Montreal. At the Congress he presented a paper at a meeting of the Paleobotanical Section and participated in meetings of the International Committee on Paleobotanical Nomenclature, of which he is a member. Local arrangements for the annual meeting of the Conference of Biological Editors, which was held in the Library of the Museum in April, were made by Chief Curator Just and Miss Lillian A. Ross, Associate Editor of Scientific Publications. Dr. Just, who continues to serve as chairman of the committee for editorial policy for the Conference of Biological Editors, was elected vice-president. He continued as a member of the International Committee on Paleobotanical Nomenclature and as a member of the program committee for the International Botanical Congress.

Dr. Robert H. Denison, Curator of Fossil Fishes, Dr. Rainer Zangerl, Curator of Fossil Reptiles, and William D. Turnbull, Assistant Curator of Fossil Mammals, attended the meetings in Pittsburgh of the Society of Vertebrate Paleontology, where Curator Denison was elected secretary-treasurer. Curator Zangerl attended the meeting in Pittsburgh of the Board of Directors of the American Geological Institute. Albert W. Forslev, Associate Curator of Mineralogy, attended the meetings in Pittsburgh of the Geological Society of America and was appointed to a committee of the Mineralogical Society of America that is engaged in compiling a list of the outstanding mineral collections in the United States.

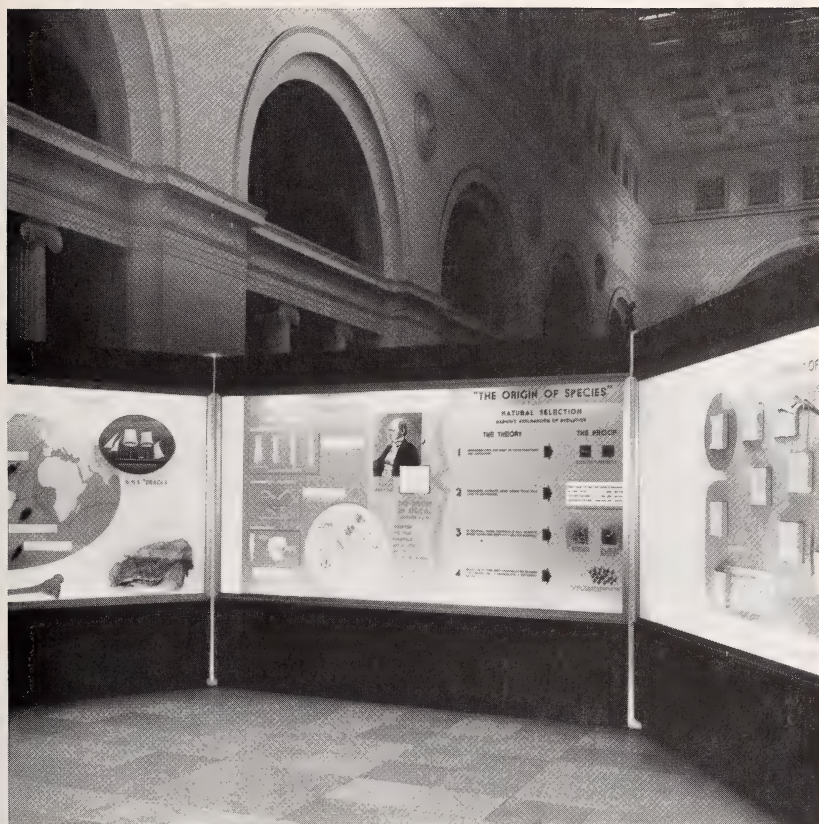
Philip Hershkovitz, Curator of Mammals, Dr. Karl Koopman, Assistant Curator of Mammals, and Miss Sophie Andris, Osteologist, attended the meeting in Washington, D.C., of the American Society of Mammalogists. Dr. Austin L. Rand, Chief Curator

of Zoology, and Emmet R. Blake, Curator of Birds, attended meetings of the American Ornithologists' Union in Regina, Saskatchewan. Loren P. Woods, Curator of Fishes, attended meetings of the American Society of Ichthyologists and Herpetologists in San Diego.

Rupert L. Wenzel, Curator of Insects, attended meetings in Columbus of the North Central Branch of the Entomological Society of America and joint meetings in Detroit of the Entomological Society of America and the Entomological Society of Canada and was elected to the standing committee on entomological nomenclature. Dr. Fritz Haas, Curator Emeritus of Lower Invertebrates, and Dr. Alan Solem, Curator, attended the meeting in Philadelphia of the American Malacological Union, and Curator Solem, who was elected counselor-at-large at the Philadelphia meeting, spoke at the meeting in Redlands, California, of the Pacific Division of the Union. D. Dwight Davis, Curator of Vertebrate Anatomy, attended meetings in Philadelphia of the American Institute of Biological Sciences and continued as a trustee of the American Society of Mammalogists, which met in Washington, D.C.

Members of the Museum's staff attended the annual meetings of the Society for the Study of Evolution (in November) and of the American Association for the Advancement of Science (in December), which were held in Chicago, and the Darwin Centennial Celebration (see page 22) at the University of Chicago (in November). Chief Curator Just attended the Darwin Centennial Celebration as official representative of the Museum and of the Botanical Society of America. Dr. Eugene S. Richardson, Jr., Curator of Fossil Invertebrates, was official delegate from the Society of Vertebrate Paleontology to the meetings of the Society for the Study of Evolution and to the Darwin Centennial Celebration. Dr. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, and Curator Quimby were elected Fellows of the American Association for the Advancement of Science.

Mrs. Meta P. Howell, Librarian, attended the meetings of the American Library Association in Washington, D.C. Mrs. M. Eileen Rocourt, Associate Librarian, was elected chairman of the Museum Division of Special Libraries Association at its annual meeting, having served as vice-chairman. Mrs. Rocourt represented the Museum Division at the Advisory Council meetings of the Special Libraries Association in Highland Park, Illinois, and during the year attended monthly meetings of the Illinois chapter of the Association. The Librarian and Associate Librarian attended sessions of the Mid-Winter Conference of the American Library Association in Chicago.



HONORING THE CENTENNIAL OF
THE PUBLICATION
OF CHARLES DARWIN'S
"THE ORIGIN OF SPECIES"

SPECIAL EXHIBIT
IN STANLEY FIELD HALL

Dr. Clifford C. Gregg, Director of the Museum, addressed the International Council of Museums in Stockholm in July and was a member of The Natural History Museums' Committee of fifteen that met at Oslo in June. E. Leland Webber, Executive Assistant, and Miss Miriam Wood, Chief of Raymond Foundation, represented the Museum at the annual meeting in Toledo of the Midwest Conference of Museums of the American Association of Museums. Miss Wood, who was chairman of the program and moderator of the session on education in museums, was elected president of the Midwest Conference of Museums.

In connection with his duties as associate editor of the new worldwide anthropological journal *Current Anthropology*, Curator Force received a grant from the Wenner-Gren Foundation for Anthropological Research to aid in exploration of problems of communication among anthropologists the world over. Dr. Robert F. Inger, Curator of Amphibians and Reptiles, was elected herpetological editor of *Copeia*, Assistant Curator Rinaldo was appointed to the editorial staff of *Archives of Archaeology*, and Curator Wenzel was appointed to the advisory board of the *Encyclopaedia Britannica* to serve as advisor in the field of entomology.

Members of our staff who continued to serve in various capacities on editorial boards of scientific journals include Curator Collier, *American Antiquity*; Curator Davis, *Copeia*; Curator Inger, *Evolution*; Chief Curator Just, *Lloydia* (editor); Mrs. Rocourt, *Bulletin* [of Museum Division of Special Libraries Association]; Dr. John W. Thieret, Curator of Economic Botany, *Economic Botany*; Assistant Curator Turnbull, *Säugertierkundliche Mitteilungen* (Stuttgart, Germany) and *Society of Vertebrate Paleontology News Bulletin*; and Curator Woods, *The American Midland Naturalist*.

Several members of the Museum's scientific staff contribute reviews and articles to various learned journals or write books on subjects within the Museum's fields of interest and research. A bibliography of some of this material in 1959 is on page 104.

PUBLIC RELATIONS

The Museum became the focus of an extraordinary amount of publicity in the press, on television, in radio, and in motion-picture newsreels because of its active participation in the Festival of the Americas that was held during the summer in connection with the Pan American Games to which Chicago was host. The Museum's contribution to the Festival was an extremely noteworthy special exhibit "Indian Art of the Americas" (see pages 23 and 25), which received unusual recognition and was acclaimed by the art critics of Chicago newspapers as an outstanding showing of primitive art. Stories and pictures of this exhibit and of objects in it continued for several weeks.

Outstanding presentations during the year included a well-illustrated three-page feature-story on the Museum's archaeological expedition to the Southwest and on dinosaurs in issues of *Midwest* (Sunday rotogravure magazine of the *Chicago Sun-Times*), a page of rotogravure pictures of exhibits of Mexican art in *Weekend* (magazine of the *Chicago Daily News*), pages of drawings by children in classes of the School of the Art Institute of Chicago working in this Museum (see page 85), and a page "Day at the Museum" in *Chicago's American*. The *Chicago Tribune* published an impressive photograph of the Museum's new exterior night lighting, which began in June (see page 107).

Museum news and pictures were circulated nationally and internationally on a larger scale than in previous years through co-operation of such distributing agencies as the Associated Press and United Press-International (there is reason to believe that such notice influences many visitors to Chicago to include the Museum in their sight-seeing itineraries). Locally, in addition to the metropolitan newspapers, the Museum received publicity in neighborhood weeklies and semiweeklies, foreign-language newspapers, and newspapers of suburbs and nearby cities. The number of news releases for the year was 250. Advance proofs of the Museum's monthly *Bulletin* are regularly supplied to the press, and supplemental publicity was received by articles and pictures reprinted from this periodical, which is published by the Museum primarily for its Members.

Radio and television stations and networks generously contributed free publicity to Museum events in spot announcements and scheduled programs. Grateful acknowledgment of this co-operation is made to the American Broadcasting Company, Columbia Broadcasting System, and National Broadcasting Company as well as to the independent local stations throughout the Chicago area. The Museum has benefited in particular from almost daily announce-

ments on two stations that direct their appeal to people interested in cultural and educational activities—the noncommercial television station WTTW (Channel 11) and FM radio station WFMT, which also published in its monthly *Fine Arts Guide* extensive series of photographs of Museum exhibits.

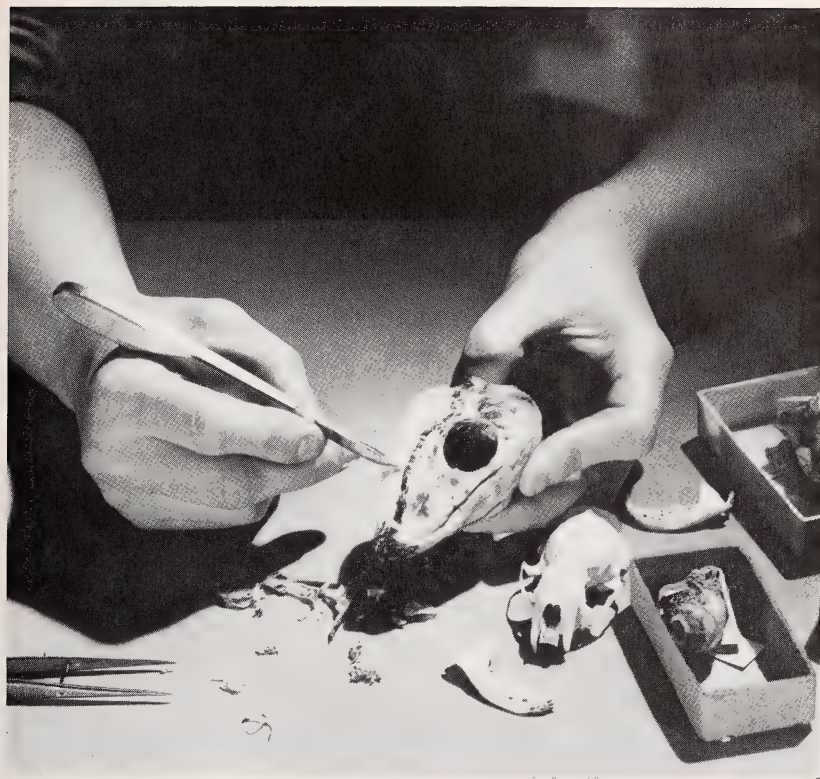
The Chicago and North Western Railway, Chicago Transit Authority, and Illinois Central System continued to display without charge in their local stations placards advertising lectures and other Museum events. Museum notices appeared in *Headline Events in Chicago* (published monthly by the Chicago Association of Commerce and Industry), *Chicago Exhibitions Calendar* (published quarterly by the Adult Education Council), and *This Week in Chicago* (distributed by hotels and organizations concerned with tourists).

MOTION PICTURES

The twice-a-year general inspection of all film material in the Film Library, which includes cleaning and repairing, was completed for the year and all film subjects were catalogued and accessioned. The Film Library now numbers 101 complete productions, besides thousands of feet of color and black-and-white film in the stock-footage library on various subjects of natural history. During the year many films were examined for material that could be incorporated into films now in use, and all storage files were relabeled. Both new and replacement titles were photographed, and damaged sections of films were printed and replaced.

Toward the close of the year all photography for the Museum's new film production was completed. Laboratory work, editing, and preparation of script are now in progress and the film will be ready for public showing during the coming year. This film will supplant the present film on the Museum's various activities, "Through These Doors," which was in continuous use throughout the year on a free-loan basis as an educational service of the Museum to all requesting organizations, schools, and colleges. It has been impossible to keep accurate count of individual viewers, but it is conservative to say that "Through These Doors" has been seen by many thousands in the ten years that it has been in use.

Requests are received from time to time for the loan of films taken in various parts of the world during Museum expeditions. This material, which shows habitats, people, and animal life, has rare and unusual value because our film record is, in many instances, the only one in existence.



MAMMAL SKULLS
BEING CLEANED

CAFETERIA AND LUNCHROOM

The total volume of business in the cafeteria and lunchroom increased slightly during the year, reaching a figure in excess of \$192,000. During the summer months the cafeteria remained open on Wednesday and Friday evenings of Grant Park concerts, and many visitors took advantage of the opportunity to have dinner at the Museum before attending the concerts (see page 21). In order to accommodate school groups better, the picnic room was entirely remodeled, with special attention to improved airconditioning. Murals by Miss Marion Pahl, Staff Illustrator, have added greatly to the attractiveness of the room (see below).

PHOTOGRAPHY AND ILLUSTRATION

The Division of Photography attained its usual high standards of excellence in photographing subjects of all descriptions. The ability to reproduce the fine details of texture in wood, mineral, and textile specimens is of great importance because the photographs are the basis of photoengravings for Museum publications or become a part of the permanent records of the Museum. John Bayalis and Homer V. Holdren succeeded admirably in handling even the most difficult matters. During the year they completed a total of 24,661 negatives, prints, kodachromes, lantern slides, and transparencies. The record keeping, ably done by Miss Mary Creed, included numbering negatives and prints, replacing and relabeling torn negative jackets, and other routine tasks that are indispensable to the care and management of a large photographic library.

E. John Pfiffner, Staff Artist, and Miss Marion Pahl, Staff Illustrator, accomplished many major assignments. Outstanding are the picnic-room murals and several posters by Miss Pahl, and less spectacular but of highest order of importance are approximately 100 drawings for scientific publications and 9 drawings for the Museum Stories of Raymond Foundation. A large part of Artist Pfiffner's time was taken up with planning exhibits for various departments of the Museum, which included work for the proposed Hall of Mammals in the Department of Zoology and the design for the large pictorial map of Indonesia for the Department of Anthropology. The close co-operation of the Staff Artist and Staff Illustrator with the artists and preparators of the Museum departments in order to produce in record time special material for the Darwin and other exhibits is particularly gratifying.

THE BOOK SHOP

Operation of The Book Shop continued at a high level during the year. Total sales (including books, souvenirs, and educational toys) amounted to \$188,615.59, a decrease of about \$8,000 from the figure for 1958. The decrease was entirely in sales by mail. Over-the-counter sales, however, increased 10 per cent over those of 1958. Early in the year a specially prepared collection of fossil specimens, with a leaflet "Your Own Fossil Collection" written by members of the Department of Geology, was placed on sale. The set had wide sales (about 6,000 units), both over the counter and through the assistance of a Wm. Wrigley Jr. Company "New Horizons" advertisement, and the Museum again is grateful to Philip K. Wrigley for his interest in the Museum and its educational work. A new Museum Storybook, fifteenth of the popular booklets written by members of Raymond Foundation staff, was on sale. Sales of color-transparency duplicates (of Museum exhibits) continued through General Biological Supply House and in the Museum and totaled 13,209.

PUBLICATIONS AND PRINTING

Again in 1959 the gross income from sales of Museum publications reached a new high. A total of 56,203 copies of publications was sold. Free distribution of publications to other scientific institutions under exchange agreements totaled 15,305 copies (see page 81), and, although the number of copies decreased in 1959, the actual bulk of material increased because the publications issued during the year contained considerably more pages than the output of the Museum Press in 1958. Also, the continued rise in Museum membership (see page 34) resulted in increased activity in the Division of Publications because all mailing plates for Members are maintained and run off there. Raymond A. N. Gomes and Miss Hilda Nordland capably handled the increased volume of work.

During the year the Museum issued nineteen publications in its scientific series, two in its popular series (one a reprint), one handbook, two Museum Storybooks (one a new edition), two guidebooks, three indexes, and one annual report. Of these, copies printed by the Museum Press totaled 32,918 from 2,791 pages of type composition. Twelve issues of *Chicago Natural History Museum Bulletin* were printed, averaging 7,650 copies an issue. Other work included posters, lecture schedules, programs, looseleaf Museum Stories for Raymond Foundation, and tags, totaling 876,346 impressions.

MUSEUM PUBLICATIONS IN 1959

DEPARTMENT OF ANTHROPOLOGY

BRAIDWOOD, ROBERT J.

Prehistoric Men, Popular Series, Anthropology, number 37, 188 pages, 45 illustrations (fourth edition)

COLLIER, DONALD

Indian Art of the Americas, Handbook, Anthropology, 64 pages, 65 illustrations

MARTIN, PAUL S.

Digging into History, A Brief Account of Fifteen Years of Archaeological Work in New Mexico, Popular Series, Anthropology, 157 pages, 63 illustrations, 1 map

RINALDO, JOHN B.

Foot Canyon Pueblo, Eastern Arizona, Fieldiana: Anthropology, volume 49, number 2, 154 pages, 62 illustrations, 3 tables

DEPARTMENT OF BOTANY

DAHLGREN, B. E.

Index of American Palms, Plates, Botanical Series, volume 14, 416 pages, 412 plates

MACBRIDE, J. FRANCIS

Flora of Peru, Botanical Series, volume 13, part 5, number 1, 538 pages

SCHWEINFURTH, CHARLES

Orchids of Peru, Fieldiana: Botany, volume 30, number 2, 280 pages, 58 illustrations

DEPARTMENT OF GEOLOGY

RICHARDSON, EUGENE S., JR.

Pennsylvanian Invertebrates of the Mazon Creek Area, Illinois, Trilobitomorpha, Arthropleurida, II, Fieldiana: Geology, volume 12, number 5, 6 pages, 2 illustrations

SELTIN, RICHARD J.

A Review of the Family Captorhinidae, Fieldiana: Geology, volume 10, number 34, 49 pages, 15 illustrations, 8 tables

DEPARTMENT OF ZOOLOGY

BLAKE, EMMET R.

Two New Game Birds from Peru, Fieldiana: Zoology, volume 39, number 32, 4 pages

GREY, MARION

Deep Sea Fishes from the Gulf of Mexico, With the Description of a New Species Squalogadus intermedius (Macrouroididae), Fieldiana: Zoology, volume 39, number 29, 24 pages, 5 illustrations

HAAS, FRITZ

Inland Mollusks from Venezuela, Southern Brazil, and Peru, Fieldiana: Zoology, volume 39, number 31, 9 pages, 5 illustrations

MUSEUM PUBLICATIONS IN 1959

HOOGSTRAAL, HARRY, AND MAKRAM N. KAISER

Ticks (Ixodoidea) of Arabia, With Special Reference to the Yemen, Fieldiana: Zoology, volume 39, number 28, 26 pages, 3 illustrations, 1 map

INGER, ROBERT F., AND CHIN PHUI KONG

New Species of Fresh-water Catfishes from North Borneo, Fieldiana: Zoology, volume 39, number 27, 18 pages, 3 illustrations, 2 tables

MARX, HYMEN

Review of the Colubrid Snake Genus Spalerosophis, Fieldiana: Zoology, volume 39, number 30, 15 pages, 2 illustrations, 1 map, 1 table

PHILIP, CORNELIUS B.

Philippine Zoological Expedition 1946-1947, Tabanidae (Diptera), Fieldiana: Zoology, volume 33, number 6, 85 pages, 34 illustrations

RAND, AUSTIN L., HERBERT FRIEDMANN, AND MELVIN A. TRAYLOR, JR.

Birds from Gabon and Moyen Congo, Fieldiana: Zoology, volume 41, number 2, 193 pages, 1 map

RAND, AUSTIN L., AND D. S. RABOR

Three New Birds from the Philippine Islands, Fieldiana: Zoology, volume 39, number 26, 3 pages

RAND, AUSTIN L., AND MELVIN A. TRAYLOR, JR.

Three New Birds from West Africa, Fieldiana: Zoology, volume 39, number 25, 5 pages

SOLEM, ALAN

Systematics of the Land and Fresh-water Mollusca of the New Hebrides, Fieldiana: Zoology, volume 43, number 1, 273 pages, 8 illustrations, 34 plates
Zoogeography of the Land and Fresh-water Mollusca of the New Hebrides, Fieldiana: Zoology, volume 43, number 2, 121 pages, 30 illustrations

STRONG, REUBEN MYRON

A Bibliography of Birds, Finding Index, Zoological Series, volume 25, part 4, 186 pages

OTHER MUSEUM PUBLICATIONS

COSNER, WINONA, LORAIN STEPHENS, AND OTHERS

Swamp Dwellers, Museum Storybook (11 Museum Stories), 28 pages, 13 illustrations, paperbound (second edition)

General Guide, Chicago Natural History Museum, 48 pages, 32 illustrations, floor plans, map (thirty-eighth edition)

MANLY, CHESLY

One Billion Years at Our Doorstep, A Series of Six Articles on Chicago Natural History Museum Reprinted from the Chicago Tribune, 64 pages, 23 illustrations

Report of the Director to the Board of Trustees for the Year 1958, 175 pages, 25 illustrations

WEAVER, DOLLA COX

And First, There Was Life in the Water, Museum Storybook (8 Museum Stories), 21 pages, 8 illustrations, 1 chart, paperbound

CHICAGO NATURAL HISTORY MUSEUM BULLETIN

Chicago Natural History Museum Bulletin, volume 30 (1959), 12 numbers,
100 pages, illustrated

THE FOLLOWING ARTICLES AND REVIEWS BY STAFF MEMBERS OF CHICAGO NATURAL
HISTORY MUSEUM ARE PRINTED IN VOLUME 30 OF THE BULLETIN:

BLAKE, EMMET R.

- "'Birds of the World' Nearing Completion," no. 12, p. 5, 1 illustration
- "Explorer Finds Rare Birds in Wilderness of Peru," no. 2, pp. 3, 6-7,
3 illustrations, 1 map

CHANGNON, HARRY

- "Gem with Qualities of a Chameleon," no. 9, pp. 4-5, 2 illustrations

COLLIER, DONALD

- "Ancient Art of Western Mexico," no. 2, pp. 4-5, 11 illustrations (and
cover picture)
- "Ancient Forerunner of Whistling Kettle," no. 4, p. 6, 1 illustration,
1 diagram
- "A New Display of Ancient Mexican Art (900-500 B.C.), no. 6, p. 3,
3 illustrations
- "Aztec Trade," no. 10, p. 5
- "Indian Art of Entire Western Hemisphere in Exhibit," no. 8, p. 3,
1 illustration (also 15 illustrations on pp. 4-5 and cover picture)
- "New Aztec Diorama Completes Meso-American Hall," no. 9, pp. 3-4,
4 illustrations (and cover picture)

DAVIS, D. DWIGHT

- "Centennial of Darwin's 'Origin of Species' Hailed," no. 11, pp. 3-4 (cover
picture)
- "Through Rain-forests in Central Malaya," no. 6, pp. 6-7, 1 illustration

FORCE, ROLAND W.

- "The Varied Peoples of Thousands of Pacific Isles," no. 5, pp. 6, 8 (cover
picture)

FORSLEV, ALBERT W.

- "Nature's Secret: Source of U. S. Diamonds," no. 10, pp. 5-6, 1 illustration,
1 cartoon
- "New Exhibits Show Rapid Progress in Mineralogy," no. 4, pp. 3-4,
1 illustration (and cover picture)

HERSHKOVITZ, PHILIP

- Review of *British Mammals* (by Maurice Burton), no. 4, p. 4

INGER, ROBERT F.

- "'Darkest Africa' Truly Is Glaringly Bright," no. 11, pp. 8-9
- Review of *A Field Guide to Reptiles and Amphibians of the United States and
Canada East of the 100th Meridian* (by Robert Conant), no. 4, p. 4

JINDRICH, MARILYN

- "'Rubbing' Against History and Culture of China," no. 12, pp. 3, 8,
2 illustrations (and cover picture)
- "The Christmas Islands Defy Yule Tradition," no. 12, p. 6

JUST, THEODORE

- "Darwin, an Orchid, and a Moth," no. 11, p. 5, 1 illustration
- "He Influenced the Course of Darwin's Life," no. 12, p. 4, 2 illustrations

THE MUSEUM BULLETIN (CONTINUED)

MARTIN, PAUL S.

- "Katchina Cult Traced Back to A.D. 1250," no. 9, pp. 7-8, 2 illustrations
- "Mystery of Handwriting on the Wall in Southwest," no. 11, pp. 6-7, 11, 6 illustrations
- "The Discovery of America (circa 23,000 B.C.)," no. 4, p. 7, 1 illustration

MCAFEE, PATRICIA

- "How Museum Aids Police in Criminal Investigation," no. 4, pp. 5-6, 2 illustrations
- "Special Exhibit Shows Exotic Musical Instruments," no. 7, pp. 3, 6, 2 illustrations

QUIMBY, GEORGE I.

- "'Feast of Dead' Released Hurons' Souls," no. 7, pp. 4, 6, 1 illustration
- "The Old Copper Indians and Their World," no. 1, pp. 4-5, 3 illustrations, 2 maps
- "Upper Lakes Farmers and Artists, 100 B.C.," no. 3, pp. 6-7, 3 illustrations

RAND, AUSTIN L.

- "Common Bird Names Are All Confused," no. 3, p. 4, 1 cartoon
- "Pity Poor Pigeon: Host to a Community," no. 8, pp. 6-7, 1 cartoon

ROWELL, ALFRED LEE

- "Ancient Aztecs Had 'Commercial Artists,'" no. 10, pp. 4-5, 3 illustrations

SMITH, C. EARLE, JR.

- "A Personal Herbarium for the Home," no. 11, pp. 10-11, 2 illustrations

SOLEM, ALAN

- "Museum Collectors' Adventures in Panama," no. 6, p. 5, 2 illustrations
- Review of *Sea Treasure, A Guide to Shell Collecting* (by Kathleen Yerger Johnstone), no. 8, p. 7

SOLEM, ALAN, AND EUGENE S. RICHARDSON, JR.

- "Museum Acquires Museum," no. 8, p. 2

SVOBODA, MARIE

- "Children's Journey on Giant Plants," no. 9, p. 7

TRAYLOR, MELVIN A., JR.

- "Research on Birds, Ticks, and Viruses," no. 7, p. 7

TURNBULL, WILLIAM D.

- "Ant Colony Assists Fossil Collectors in Wyoming," no. 9, pp. 6-7, 4 illustrations

WENZEL, RUPERT L.

- "William J. Gerhard, 1873-1958," no. 1, p. 2, 1 illustration

WOODBURY, RICHARD B.

- Review of *Digging into History* (by Paul S. Martin), no. 6, p. 7

WOODLAND, BERTRAM G.

- "Naming a Rock," no. 7, pp. 5-6, 1 illustration, 1 diagram

WOODS, LOREN P.

- "A Survey of Fishes in an Illinois Stream," no. 1, pp. 6-7, 2 illustrations
- Review of *A Century of Biological Research* (Illinois Natural History Survey), no. 7, p. 2

OTHER PUBLICATION OF STAFF MEMBERS IN 1959

DEPARTMENT OF ANTHROPOLOGY

COLLIER, DONALD

"El Desarrollo de la Civilización Peruana," *Revista Colombiana de Antropología*, vol. 8, pp. 273-287

Review of *Contemporary Pottery Techniques in Central and Southern Mexico* (by George M. Foster), in *American Antiquity*, vol. 24, no. 3, p. 329

FORCE, ROLAND W.

"Palauan Money: Some Preliminary Comments on Material and Origins," *The Journal of the Polynesian Society*, vol. 68, no. 1, pp. 40-44

LEWIS, PHILLIP H.

"What Is Primitive Art?" *WFMT Fine Arts Guide*, vol. 8, no. 3, pp. 6-9, 24 illustrations

QUIMBY, GEORGE I.

"Lanceolate Points and Fossil Beaches in the Upper Great Lakes Region," *American Antiquity*, vol. 24, no. 4, pp. 424-426

"Silver Ornaments and the Indians," in *Misceallanea Paul Rivet Octogenario Dictata* [2 volumes] (XXXI Congreso Internacional de Americanistas, Universidad Nacional Autónoma de México, México, D.F.), vol. 1, pp. 317-337

Review of *Geology of the Great Lakes* (by Jack L. Hough), in *American Antiquity*, vol. 25, no. 2, pp. 277-279 [with George M. Stanley]

Review of *Late Pleistocene Geochronology and the Paleo-Indian Penetration into Lower Michigan Peninsula* (by Roland J. Mason), in *American Antiquity*, vol. 24, no. 3, p. 327

DEPARTMENT OF BOTANY

DAHLGREN, B. E.

"A New *Copernicia* Hybrid from Cuba," *Principes*, vol. 3, no. 3, pp. 87-90, 1 table, 4 illustrations [with S. F. Glassman]

JUST, THEODORE

"Postglacial Vegetation of the North-Central United States: A Review," *The Journal of Geology*, vol. 67, no. 2, pp. 228-238

"Progress in Paleobotany, 1908-1958," *Journal of Paleontology*, vol. 33, no. 3, pp. 500-510

"The American Midland Naturalist—A Living Tribute to Its Founder," *The American Midland Naturalist* (Cumulative Index Issue), vol. 60, no. 2, pp. 9-12

"The Ecological Approach to Germfree Life Studies," *Annals of the New York Academy of Sciences*, vol. 78, no. 1, pp. 371-374

SMITH, C. EARLE, JR.

"Thomas Nuttall, 1786-1859: An Evaluation and Biography," *Leaflets of Western Botany*, vol. 9, no. 3, pp. 33-42 [with John W. Thieret]

THIERET, JOHN W.

"An English Obituary Account of Thomas Nuttall (Concluding Part)," *Bartonia*, no. 29, p. 10 [with C. Earle Smith, Jr.]

"Grassland Vegetation Near Ft. Providence, Northwest Territories," *The Canadian Field-Naturalist*, vol. 73, no. 3, pp. 161-167

"Statistical Catalogue of Scrophulariaceae," in *Catalogo e Estatica dos Generos Botânicos Fanerogâmicos* [J. Angely, editor] (published serially by Instituto Paraense de Botânica, Curitiba, Brazil), vol. 49, pp. 3-10

OTHER PUBLICATIONS OF STAFF MEMBERS IN 1959

DEPARTMENT OF GEOLOGY

GILPIN, ORVILLE L.

"A Free-standing Mount of Gorgosaurus," *Curator*, vol. 2, no. 2, pp. 162-168

RICHARDSON, EUGENE S., JR.

"Fossils," in *The American Peoples Encyclopedia Yearbook, Events and Personalities of 1958*, p. 537

WIEBE, MAIDI

"Fürsorge für fremde Brut," *Natur und Volk*, vol. 89, no. 12, pp. 399-400

ZANGERL, RAINER

"Rudimentäre Carapaxbeschuppung bei jungen Exemplaren von *Carettochelys* und ihre morphogenetische Bedeutung," *Vierteljahresschrift der Naturforschenden Gesellschaft in Zürich*, Jahrgang 104 (Festschrift H. Steiner), pp. 138-147, 8 illustrations

DEPARTMENT OF ZOOLOGY

BLAKE, EMMET R.

"A New Species of *Todirostrum* from Peru," *Natural History Miscellanea* [Chicago], no. 171, pp. 1-2

"New and Rare Colombian Birds," *Lozania*, no. 11, pp. 1-10

DAVIS, D. DWIGHT

"Karl Paterson Schmidt, 1890-1957," *Copeia*, 1959, pp. 189-192

"Science Congress at Singapore," *Science*, vol. 129, pp. 1620-1621

GREY, MARION

"Descriptions of Newly Discovered Western Atlantic Specimens of *Diceratias bispinosus* Günther and *Paroneiroides wedli* (Pietschmann)," *Copeia*, 1959, no. 3, pp. 225-228, 1 illustration

"Three New Genera and One New Species of the Family Gonostomatidae," *Bulletin of the Museum of Comparative Zoology*, vol. 121, no. 4, pp. 167-184, 3 illustrations

HAAS, FRITZ

"Protection under the Plenary Powers of the Generic Name *Anodonta* Lamarck, 1799 (Class Pelecypoda), A Name Placed on the Official List of Generic Names in Zoology in 1926 by the Ruling Given in Opinion 94," *Opinions and Declarations, International Commission on Zoological Nomenclature*, vol. 20, no. 28, pp. 303-310

"Shells Collected by the Expedition," in *An Anthropological Reconnaissance to West Pakistan 1955* (Henry Field), *Papers, Peabody Museum of Archaeology and Ethnology*, vol. 52, p. 228

HERSHKOVITZ, PHILIP

"A New Race of Red Brocket (*Mazama americana*) from Colombia," *Proceedings of the Biological Society of Washington*, vol. 72, pp. 93-96

"A New Species of South American Brocket, Genus *Mazama* (Cervidae)," *Proceedings of the Biological Society of Washington*, vol. 72, pp. 45-54

"Nomenclature and Taxonomy of the Neotropical Mammals Described by Olfers, 1818," *Journal of Mammalogy*, vol. 40, no. 3, pp. 337-353

"The Metatarsal Glands in White-tailed Deer and Related Forms of the Neotropical Region," *Mammalia*, vol. 22, pp. 537-546

OTHER PUBLICATIONS BY STAFF MEMBERS IN 1959

INGER, ROBERT F.

Amphibians Exclusive of the Genera Afrixalus and Hyperolius (Exploration du Parc National de l'Upemba, volume 56), 264 pages [with Karl P. Schmidt]

"Temperature Responses and Ecological Relations of Two Bornean Lizards," *Ecology*, vol. 40, pp. 127-136

KOOPMAN, KARL F.

"Subfossil Mammals from the Bomez Farias Region and the Tropical Gradient of Eastern Mexico," *Journal of Mammalogy*, vol. 40, pp. 1-12 [with Paul S. Martin]

"The Zoogeographical Limits of the West Indies," *Journal of Mammalogy*, vol. 40, 236-240

MARX, HYMAN

"A Herpetological Collection from Northeastern Iraq," *Transactions of the Kansas Academy of Science*, vol. 62, pp. 91-122 [with Charles A. Reed]

"A New Skink from Australia," *Copeia*, 1959, no. 3, pp. 207-208 [with William Hosmer]

NELSON, EDWARD M.

"The Cranial Anatomy of a Free-Living Pomacentrid 'Cyclopean,'" *Copeia*, 1959, no. 2, pp. 152-156, 5 illustrations

RAND, AUSTIN L.

"Birds," in *The American Peoples Encyclopedia Yearbook, Events and Personalities of 1958*, pp. 284-285

"Late Records of the Cebu Golden-backed Hanging Parrakeet," *Aviculture*, vol. 65, pp. 177-178

"Notes on Some Philippine Bulbuls," *The Auk*, vol. 76, pp. 102-104 [with D. S. Rabor]

"Pitch Plastering of the Red-breasted Nuthatch," *Audubon Magazine*, vol. 61, pp. 270-272, 2 illustrations

ROSCOE, ERNEST J.

"An Additional Record of *Lymnaea auricularia* from Utah," *Gastropodia*, vol. 1, no. 3, p. 23, 2 illustrations

SOLEM, ALAN

"Marine Mollusca of the New Hebrides," *Pacific Science*, vol. 13, no. 3, pp. 253-268, 1 table

Notes on Mexican Mollusks, II (Occasional Papers of the Museum of Zoology, University of Michigan, number 611), 15 pages, 2 illustrations, 3 tables

"On the Family Position of Some Palau, New Guinea, and Queensland Snails," *Archiv für Molluskenkunde*, vol. 88, pp. 151-158, 4 illustrations

TRAYLOR, MELVIN A., JR.

"A New Race of Weaver Bird, *Ploceus intermedius*," *Natural History Miscellaneous* [Chicago], no. 169, pp. 1-2

"The Systematics of the African Grey Tits, *Parus afer* and *Parus griseiventris*," *Bulletin of the British Ornithologists' Club*, vol. 79, pp. 42-46 [with Mrs. B. P. Hall]

WENZEL, RUPERT L.

"William J. Gerhard, 1873-1958," *Annals of the Entomological Society of America*, vol. 52, pp. 339-340, 1 illustration

WOODS, LOREN P.

"*Parahollardia schmidtii*, A New Triacanthodid Fish from the Western Caribbean," *Copeia*, 1959, no. 3, pp. 222-225, 1 illustration

MAINTENANCE, CONSTRUCTION, AND ENGINEERING

The work of installation and reinstallation in various exhibition halls throughout the Museum necessarily took a great amount of the time and effort of the maintenance and engineering personnel. The special exhibit "Indian Art of the Americas" (see page 25) required the erection of special hallcases, bases, and canopies in Stanley Field Hall. Special bases were prepared for installation of the fossil stump in Hall 26 (Botany, see page 57) and for reinstallation of certain fossil specimens in Hall 38 (Geology, see page 65), which required glass panels.

A major rearrangement in the Department of Geology required the installation of 87 new steel storage-cases to house fossil material in the research collections. In addition, 2,000 trays for storage-cases were made in the Museum's shops, and 15 five-drawer map units were installed. The picnic room was remodeled to provide better ventilation and to increase the general attractiveness of the entire area (see page 98). Many other improvements that increase efficiency in laboratories and workrooms were completed throughout the Museum. In addition, the usual efficiency of painters, janitors, and others involved in the service of cleaning and refurbishing the Museum has kept the building at the high standard of cleanliness that so often evokes comment from our visitors.

Exterior maintenance of the building included tuckpointing the north and south steps as well as the areaways both at ground-floor and third-floor levels. The blacktop areas of the terraces north and south of the building were recoated, and work was done near the west door to counteract the effect of settling. The continuous inspection of the building and the planning and supervision of its maintenance and care by James R. Shouba, Superintendent, insure maximum safety and cleanliness throughout.

The floodlighting of the building (see page 21) was a culmination of long and careful planning by William E. Lake, Chief Engineer of the Museum. Plans included running new power lines from the transformers to a main control-panel located in the switchboard room from where current was distributed to six small panels placed at various points on the ground floor, and from these panels circuits were run to the various outlets outside the building. To prevent corrosion and also to prevent staining the marble walls, aluminum conduit was used throughout. To complete this project 330 floodlight fixtures and several miles of wire were required. After careful testing, the floodlighting was formally displayed to the public on the evening of June 16.

Another major project in the Division of Engineering was the installation of a third boiler to replace a boiler that had been installed in the building before 1920. The old boiler had been used in recent years only for short periods, and careful appraisal indicated that it could no longer be operated at the high pressures used in the two newer boilers installed ten years ago. Therefore it was removed, and new equipment was installed that could be used either independently or with the other boilers. Work was begun on the removal of the old boiler in June, and the new boiler was ready for service early in December.

In the summer months routine cleaning, inspection, and replacement of parts were completed for boilers, pumps, and other machinery. Two of the two-inch steam lines feeding steam to Hall 4 (Anthropology) and Hall 16 (Zoology) were found to be in bad condition and were replaced with new pipe and re-covered. Other steam-line and plumbing maintenance was taken care of as required.

During the year new slim-line fixtures were installed in Hall 4 (Anthropology) to improve lighting. Lighting of exhibit cases was completed in Hall 8 (Anthropology) and in Hall 26 (Botany). Gas lights formerly used to mark the exits in James Simpson Theatre were replaced with new approved electrical units. Switches on the main switchboard were replaced to eliminate any possible loss of current by improper contact.

Under existing contracts with the John G. Shedd Aquarium and the Chicago Park District, a total of 11,673,350 pounds of steam was furnished to the Aquarium and a total of 17,132,794 pounds of steam was furnished to the Park District. A total of 64,776,350 pounds of steam was generated, 35,970,206 pounds of this amount being used to heat the Museum building.

MISCELLANEOUS

In the pages that follow are submitted the Museum's financial statements, attendance statistics, door receipts, accessions, list of Members, articles of incorporation, and amended by-laws.

CLIFFORD C. GREGG, *Director*
Chicago Natural History Museum

ATTENDANCE STATISTICS

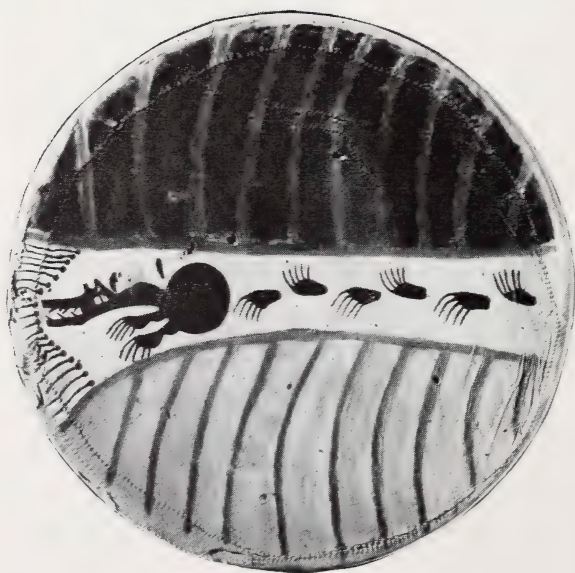
FINANCIAL STATEMENTS

LIST OF ACCESSIONS

LIST OF MEMBERS

ARTICLES OF INCORPORATION

AMENDED BY-LAWS



WAR
SHIELD

CROW
MONTANA

DIAMETER
23
INCHES

COMPARATIVE ATTENDANCE STATISTICS AND DOOR RECEIPTS

FOR YEARS 1959 AND 1958

| | 1959 | | 1958 |
|--|-----------|---------------|-----------|
| Total attendance..... | 1,075,426 | | 1,049,401 |
| Paid attendance..... | 157,643 | | 161,593 |
| Free admissions on pay days | | | |
| Students..... | 53,662 | | 45,106 |
| School children..... | 166,298 | | 156,469 |
| Teachers..... | 10,883 | | 8,955 |
| Members of the Museum..... | 756 | | 708 |
| Service men and women..... | 840 | | 811 |
| Special meetings and occasions..... | 3,640 | | 3,519 |
| Press..... | 43 | | 41 |
| Admissions on free days | | | |
| Thursdays (52)..... | 141,491 | (51) | 131,665 |
| Saturdays (52)..... | 251,262 | (52) | 246,379 |
| Sundays (52)..... | 288,908 | (52) | 294,155 |
| Highest attendance on any day | | | |
| (November 28)..... | 13,888 | (November 29) | 15,133 |
| Lowest attendance on any day | | | |
| (January 5)..... | 149 | (January 6) | 244 |
| Highest paid attendance (September 7)... | 3,236 | (September 1) | 3,332 |
| Average daily admissions (363 days)..... | 2,963 | (363 days) | 2,891 |
| Average paid admissions (207 days)..... | 765 | (208 days) | 777 |
| <hr/> | | | |
| Number of picture postcards sold..... | 278,682 | | 247,866 |
| Sales of Museum publications (scientific and popular), <i>General Guide</i> , and photographs; checkroom receipts..... | \$ 35,179 | | \$ 29,675 |

CHICAGO NATURAL HISTORY MUSEUM

COMPARATIVE STATEMENT OF RECEIPTS AND EXPENDITURES—CURRENT FUNDS

FOR THE YEARS 1959 AND 1958

GENERAL OPERATING FUND

| RECEIPTS: | 1959 | 1958 |
|--|--------------------|--------------------|
| Endowment income— | | |
| From investments in securities..... | \$ 386,590 | \$ 376,185 |
| From investments in real estate..... | 406,801 | 428,280 |
| | <u>\$ 793,391</u> | <u>\$ 804,465</u> |
| Chicago Park District—tax collections..... | \$ 379,249 | \$ 232,406 |
| Annual and sustaining memberships..... | 29,340 | 28,925 |
| Admissions..... | 39,411 | 40,398 |
| Sundry receipts, including general purpose contributions..... | 80,574 | 69,573 |
| Restricted funds transferred to apply against Operating Fund expenditures (contra)..... | 247,622 | 222,741 |
| | <u>\$1,569,587</u> | <u>\$1,398,508</u> |
| EXPENDITURES: | | |
| Operating expenses— | | |
| Departmental operating expenses..... | \$ 633,983 | \$ 548,329 |
| General operating expenses..... | 493,319 | 438,007 |
| Building repairs and alterations..... | 97,321 | 127,997 |
| | <u>\$1,224,623</u> | <u>\$1,114,333</u> |
| Collections— | | |
| Purchases and expedition costs..... | \$ 81,873 | \$ 191,899 |
| Furniture, fixtures, and equipment..... | 23,210 | 10,884 |
| Pension and employees' benefits..... | 81,879 | 73,240 |
| Provision for mechanical plant depreciation (contra)..... | 10,000 | 10,000 |
| Nonrecurring expenditures— | | |
| Purchase and installation of boiler | | |
| Amount paid in 1959..... | \$ 99,452 | |
| (\$20,000 additional to be paid in 1960) | | |
| Exterior lighting of Museum building..... | 49,300 | |
| | <u>\$1,570,337</u> | <u>\$1,400,356</u> |
| DEFICIT FOR YEAR..... | <u>\$ 750</u> | <u>\$ 1,848</u> |

AUDITOR'S CERTIFICATE APPEARS ON FOLLOWING PAGE

CONTINUED ON NEXT PAGE

CHICAGO NATURAL HISTORY MUSEUM

COMPARATIVE STATEMENT OF RECEIPTS AND EXPENDITURES—CURRENT FUNDS

FOR THE YEARS 1959 AND 1958 (CONTINUED)

THE N. W. HARRIS PUBLIC SCHOOL EXTENSION FUND

| | 1959 | 1958 |
|-----------------------------|-----------------|-----------------|
| Income from endowments..... | \$ 31,120 | \$ 30,106 |
| Expenditures..... | 28,213 | 27,178 |
| SURPLUS FOR THE YEAR..... | <u>\$ 2,907</u> | <u>\$ 2,928</u> |

OTHER RESTRICTED FUNDS

RECEIPTS:

| | 1959 | 1958 |
|--|-------------------|-------------------|
| From Specific Endowment Fund investments.... | \$ 74,367 | \$ 71,193 |
| Contributions for specified purposes..... | 54,187 | 12,491 |
| Operating Fund appropriations for mechanical plant depreciation (contra)..... | 10,000 | 10,000 |
| Sundry receipts..... | 63,541 | 72,966 |
| | <u>\$ 202,095</u> | <u>\$ 166,650</u> |

EXPENDITURES:

| | | |
|--|-------------------|-------------------|
| Transferred to Operating Fund to apply against expenditures (contra)..... | \$ 247,622 | \$ 222,741 |
| Added to Endowment Fund principal..... | 70,000 | 52,000 |
| (Gain) loss on sale of securities..... | (7,161) | 3,763 |
| | <u>\$ 310,461</u> | <u>\$ 278,504</u> |

| | | |
|---|---------------------|---------------------|
| EXCESS OF EXPENDITURES OVER RECEIPTS..... | <u>\$ (108,366)</u> | <u>\$ (111,854)</u> |
|---|---------------------|---------------------|

THE TRUSTEES, CHICAGO NATURAL HISTORY MUSEUM:

In our opinion, the accompanying statement presents fairly the receipts and expenditures of the current funds of Chicago Natural History Museum for the year ended December 31, 1959, in conformity with generally accepted accounting principles applied on the same basis as in the preceding year. Our examination of the statement was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

ARTHUR YOUNG & COMPANY

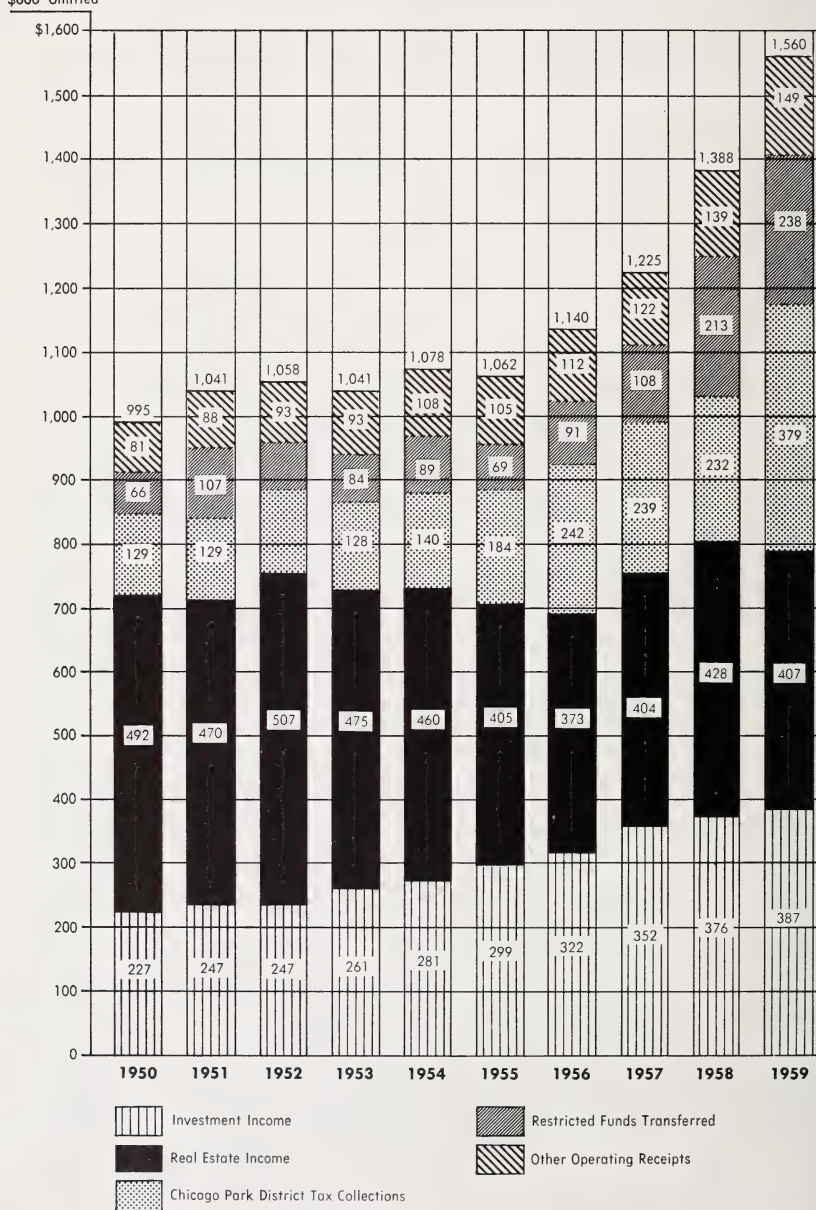
Chicago, Illinois
February 1, 1960

OPERATING FUND RECEIPTS—TEN-YEAR SUMMARY

(in thousands of dollars)

RECEIPTS:

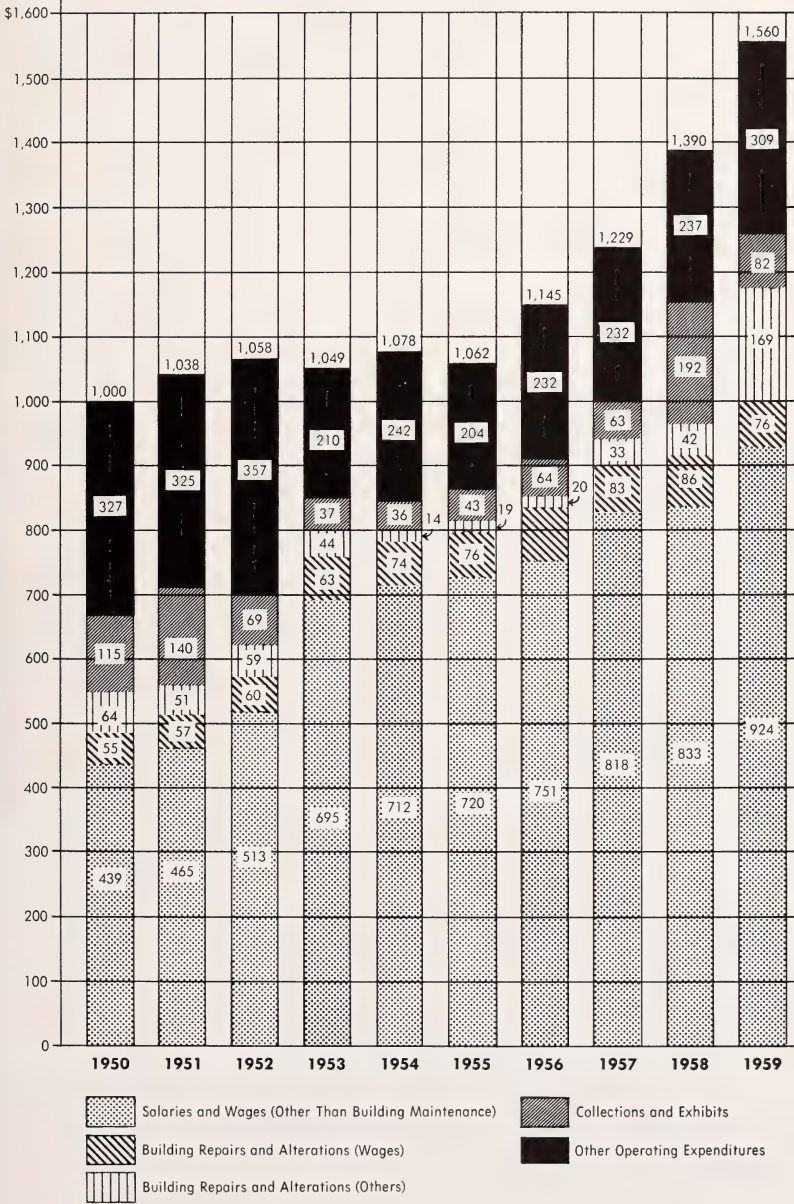
\$000 Omitted



OPERATING FUND EXPENDITURES—TEN-YEAR SUMMARY (in thousands of dollars)

EXPENDITURES:

\$000 Omitted



USE DURING 1959 OF SPECIAL FUNDS CONTRIBUTED IN FORMER YEARS

| | |
|---|-------------|
| EDWARD E. AYER LECTURE FOUNDATION | |
| Cost of Museum lecture series..... | \$ 4,087.55 |
| Subsidy to publication program..... | 1,559.39 |
| FREDERICK AND ABBY KETTELE BABCOCK FUND | |
| Subsidy to publication program..... | 1,434.13 |
| MRS. T. B. BLACKSTONE FUND | |
| Purchase of specimens..... | 900.00 |
| EMILY CRANE CHADBOURNE ZOOLOGICAL FUND | |
| Purchase of specimens..... | 539.20 |
| WILLIAM J. AND JOAN A. CHALMERS TRUST FUND | |
| Purchase of specimens..... | 50.00 |
| MRS. JOAN A. CHALMERS BEQUEST FUND | |
| Purchase of specimens..... | 436.40 |
| Scientific conferences..... | 450.00 |
| Field trips..... | 276.40 |
| CONOVER GAME-BIRD FUND | |
| Purchase of specimens..... | 1,602.00 |
| Field trips..... | 3,777.60 |
| THOMAS J. DEE FELLOWSHIP FUND | |
| Fellowship grant to Alfredo Evangelista..... | 1,215.00 |
| GROUP INSURANCE FUND* | |
| Group insurance costs..... | 8,336.82 |
| Subsidy to Pension Fund..... | 7,542.46 |
| N. W. HARRIS PUBLIC SCHOOL EXTENSION FUND | |
| Preparation, care, and distribution of exhibits to schools of Chicago..... | 28,212.78 |
| INSTITUT DES PARCS NATIONAUX DU CONGO BELGE | |
| Belgian Congo expedition..... | 4,224.26 |
| THE JOHNSON FOUNDATION | |
| Research on waxy palms..... | 2,721.00 |
| LIBRARY FUND† | |
| Purchase of books and periodicals..... | 3,521.19 |
| NATIONAL SCIENCE FOUNDATION | |
| Research subsidies (various)..... | 20,699.47 |
| JAMES NELSON AND ANNA LOUISE RAYMOND PUBLIC SCHOOL AND CHILDREN'S LECTURE FUND | |
| Subsidy to public school and children's lecture program..... | 33,216.35 |
| DONALD RICHARDS FUND | |
| Subsidy to cryptogamic botanical research..... | 1,996.20 |
| MAURICE L. RICHARDSON PALEONTOLOGICAL FUND | |
| Field trip to Washakie Basin..... | 1,488.28 |
| KARL P. SCHMIDT FUND | |
| Study grants..... | 197.60 |
| DEWITT VAN EVERA PURCHASE FUND | |
| Purchase of ethnological portraits..... | 4,700.00 |

These funds have been used in accordance with the stipulations under which they were accepted by the Museum. In addition, the income from more than \$12,000,000 of contributed endowment funds was used in general Museum operation.

* Established by Stanley Field

† Established by Edward E. Ayer, Huntington W. Jackson, Arthur B. Jones, and Julius and Augusta N. Rosenwald

Contributions and Bequests

Contributions and bequests to Chicago Natural History Museum may be made in securities, money, books, or collections. They may, if desired, take the form of a memorial to a person or cause, to be named by the giver. For those desirous of making bequests to the Museum, the following form is suggested:

FORM OF BEQUEST

I do hereby give and bequeath to Chicago Natural History Museum of the City of Chicago, State of Illinois:

Cash contributions made within the taxable year to Chicago Natural History Museum to an amount not in excess of 20 per cent of the taxpayer's net income are allowable as deductions in computing net income for federal income tax

ACCESSIONS 1959

DEPARTMENT OF ANTHROPOLOGY

BAHR, MISS EDNA H., Ridgefield, Connecticut: archaeological materials—China (gift)

BAKER, MRS. JOEL, Nashville, Ohio: Manchurian lady's costume—China (gift)

BARRYMORE, JAY, Chicago: amulets—Egypt (gift)

BASCOM, DR. WILLIAM R., Berkeley, California: 8 ethnological objects—West Africa (gift)

BUJAK, WALTER, Cleveland: reproduction of rubbing of Maya stone disc (gift)

CARLOCK, MRS. LYMAN, Oak Park, Illinois: 41 ethnological objects—China, Japan, and Philippine Islands (gift)

CHICAGO NATURAL HISTORY MUSEUM:

Collected by Dr. Paul S. Martin (Southwest Archaeological Expedition, 1959): 1,212 stone, bone, and shell artifacts, 4 skeletons, 25 restorable pottery vessels, 15,000 sherds

Purchases: Osage skirt, 9 Tibetan books and handwritten Tibetan manuscript, 2 African masks and 1 leg ornament, 21 paintings of South American Indians, archaeological and ethnological specimens from China

Transfer: slab of invertebrate fossils with Chinese poem engraved on one side—from Department of Geology, Chicago Natural History Museum (see Annual Report 1926 [vol. 7, no. 1, 1927], page 111, Accessions, Department of Geology, "Bahr, A. W.")

FORCE, DR. ROLAND W., Chesterton, Indiana: 2 knives, 1 spear—Burma (gift)

FUCHS, LOUIS H., Chicago: ethnological materials—Philippine Islands and China (gift)

FULLER, CAPTAIN AND MRS. A. W. F., London: greenstone *hei tiki*—New Zealand (gift)

GILCHRIST, MRS. JOHN FOSTER, Chicago: pottery figurine—Mexico (gift)

GRAHAM, DR. DAVID C., Englewood, Colorado: archaeological and ethnological specimens—China (gift)

HALDEMAN, MRS. WALTER, Cape May, New Jersey: Mandarin coat—China (gift)

HARRIS, MRS. ROBERT, Oak Park, Illinois: photographic slides (gift)

MACKINLAY, MISS ALICE, Chicago: pottery effigy receptacle—southwestern United States (gift)

MACNAB, CHARLES, Chicago: 34 projectile points, 4 scrapers—Saudi Arabia (gift)

MCNAMARA, MRS. ROBERT C., Winnetka, Illinois: 3 pottery vessels—Arizona (gift)

NOREM, MR. AND MRS. LAURENCE, Hubbard Woods, Illinois: ethnological materials—India, China, and Japan (gift)

POPE, MISS KATHERINE, Chicago: 4 wooden foodbowls—Polynesia (gift)

RAYMOND, DR. ALBERT, Northfield, Illinois: replica of petroglyph (gift)

RUCAVADO, MRS. HAROLD, Tucson, Arizona: 22 archaeological specimens—Costa Rica (gift)

SMARTZ, MISS SARAH, Chicago: burial mat—Solomon Islands (gift)

WIELGUS, RAYMOND, Chicago: shield and mask—Melanesia (exchange); drum—New Guinea (gift)

WILTSEE, E. T., Centerburg, Ohio: water basket—New Mexico (gift)

DEPARTMENT OF BOTANY

ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA, Philadelphia: 91 specimens of vascular plants (21 as gift and 70 as exchange)

ARISTIGUIETA, DR. LEANDRO, Caracas, Venezuela: specimen of *Sloanea grandiflora* (gift)

BENNETT, HOLLY REED, Chicago: 4,809 specimens of vascular plants (gift)

BERNICE P. BISHOP MUSEUM, Honolulu: 3 specimens of woody plants (gift)

BOTANICAL MUSEUM OF THE UNIVERSITY, Copenhagen, Denmark: 204 bryophytes (exchange)

BOTANISCHER GARTEN UND MUSEUM, Berlin-Dahlem, Germany: 258 specimens of flowering plants (exchange)

BRITISH MUSEUM (NATURAL HISTORY), London: 290 specimens of vascular plants and 86 specimens of fungi (exchange)

CALIFORNIA ACADEMY OF SCIENCES, San Francisco: 173 specimens of flowering plants (exchange)

CANADA DEPARTMENT OF AGRICULTURE, Ottawa, Ontario: 433 specimens of vascular plants (exchange)

CENTRO NACIONAL DE AGRONOMIA, Santa Tecla, El Salvador: 297 specimens of vascular plants (exchange)

CHICAGO ACADEMY OF SCIENCES, Chicago: specimen of *Asimina triloba* (gift)

CHICAGO NATURAL HISTORY MUSEUM: Collected by Dr. John W. Thieret and Robert J. Reich (Northern Great Plains Botanical Field Trip, 1959): 5,000 specimens of vascular plants, 275 specimens of cryptogams, 110 wood samples, 13 seed samples

Purchases: 180 specimens of bryophytes—Arkansas and Missouri; 224 specimens of ferns—Malaya; 371 specimens of flowering plants—Mexico; 1,051 specimens of vascular plants—South Africa

DAHLGREN, R., London: specimen of *Juncus* (gift)

FIELD, DR. HENRY, Coconut Grove, Florida: 3 specimens of fungi (gift)

FISHERIES RESEARCH BOARD, London, Ontario, Canada: 15 specimens of flowering plants (gift)

FLORIDA AGRICULTURAL EXPERIMENT STATION, Gainesville: 43 specimens of *Zephyranthes* (exchange)

FOREST PRODUCTS LABORATORY, Madison, Wisconsin: 81 specimens of woody plants (exchange)

GIBSON, MRS. DOROTHY, Chicago: 82 specimens of vascular plants (gift)

GOTEBORGS BOTANISKA TRÄDGÄRD, Gothenburg, Sweden: 203 specimens of vascular plants (exchange)

GRAY HERBARIUM, Cambridge, Massachusetts: 109 specimens of ferns and fern allies (exchange)

GREGG, DR. CLIFFORD C., Valparaiso, Indiana: 5 specimens of cryptogams (gift)

HAWKES, DR. J. G., Birmingham, England: 292 specimens of vascular plants (gift)

ILLINOIS NATURAL HISTORY SURVEY, Urbana: specimen of *Trichomanes* (exchange)

ILLINOIS STATE MUSEUM, Springfield: specimen of *Heteranthera dubia* (exchange)

INSTITUTO NACIONAL DE PESQUISAS DA AMAZÔNIA, Belém, Brazil: 63 specimens of Lentibulariaceae (gift)

JAMAICA, THE INSTITUTE OF, Kingston, British West Indies: 61 specimens of vascular plants (exchange)

KAUSEL, DR. EBERHARD, Santiago, Chile: 42 specimens of flowering plants (exchange)

MAGILL COLLEGE HERBARIUM, Montreal, Quebec, Canada: 3 specimens of flowering plants (gift)

MAHESHWARI, PROFESSOR P., Delhi, India: vial of *Lemna paucicostata* and vial of *Wolffia microscopica* (gift)

MINISTERIO DE AGRICULTURA, Santiago, Chile: 23 photographs of palms (gift)

MINNESOTA, UNIVERSITY OF, Minneapolis: 115 specimens of vascular plants (exchange)

MONTREAL, UNIVERSITY OF, Montreal, Quebec, Canada: 117 specimens of vascular plants (exchange)

MUSÉUM NATIONAL D'HISTOIRE NATURELLE, Paris: 127 specimens of mosses (exchange)

NATURHISTORISCHES MUSEUM, Vienna, Austria: 100 specimens of cryptogams (exchange)

NELSON, DR. EDWARD M., Chicago: 20 specimens of flowering plants (gift)

NEW YORK BOTANICAL GARDEN, New York: 289 specimens of vascular plants (exchange)

PALSER, DR. BARBARA F., Chicago: 21 specimens of Ericaceae and 5 specimens of miscellaneous flowering plants (gift)

PFISTER, PROFESSOR A., Concepción, Chile: 10 specimens of vascular plants (exchange)

SANDERSON, MILTON W., Urbana, Illinois: 58 specimens of vascular plants (gift)

SHERFF, DR. EARL E., Hastings, Michigan: 35 specimens of flowering plants (gift)

SMITH, DR. C. EARLE, JR., Oak Park, Illinois: 1,101 specimens of flowering plants (gift)

SOUKUP, J., Lima, Peru: 14 specimens of flowering plants (gift)

SWINK, FLOYD A., Willow Springs, Illinois: 236 specimens of vascular plants (gift)

SYLVESTER, C. A., Evanston, Illinois: 81 specimens of flowering plants (gift)

TIFFANY, DR. HANFORD, Evanston, Illinois: 10 specimens of flowering plants (gift)

UNIVERSIDAD AUTONOMA DE SAN LUIS POTOSI, San Luis Potosi, Mexico: 86 specimens of vascular plants (exchange)

WATSON, JOSEPH, New Albany, Indiana: 240 specimens of vascular plants (exchange)

WEBB, DR. EDWARD F., Skokie, Illinois: 77 specimens of vascular plants and 17 specimens of cryptogams (gift)

WILLIAMS, DR. LOUIS O., Beltsville, Maryland: 3 specimens of *Tetrorchidium* and 25 pamphlets (gift)

WILSON, ARCHIE F., Summit, New Jersey: 57 wood specimens (exchange)

WISCONSIN, UNIVERSITY OF, Madison: 288 specimens of vascular plants (exchange)

YALE UNIVERSITY, SCHOOL OF FORESTRY, New Haven, Connecticut: 91 wood samples and 23 specimens of wood plants (exchange)

DEPARTMENT OF GEOLOGY

ALF, RAYMOND, Claremont, California: fragments of fossil mammals and reptiles—Nebraska (gift)

AMERICAN MUSEUM OF NATURAL HISTORY, New York: fossil-fish fragments—Ohio (exchange)

ANONYMOUS: fragments of fossil mammals—Greece (gift)

BALDWIN, MRS. FAITH E., Chicago: opal locket (gift)

BERRY, DR. S. STILLMAN, Redlands, California: fossil clam and snails—Montana (gift)

BLACKBURN, JOSEPH, El Paso, Texas: fossil tooth of shark—Texas (gift)

BURG, E., Chicago: native copper—Wisconsin (gift)

CANRIGHT, DR. JAMES E., Bloomington, Indiana: fossil insect—Nova Scotia (gift)

CARR, R. (address lacking): cephalopod—Texas (gift)

CHICAGO NATURAL HISTORY MUSEUM: Collected by Dr. Robert H. Denison and Orville L. Gilpin (Idaho Paleontological Field Trip, 1959): fossil invertebrates and fossil fishes—British Columbia

Collected by Albert W. Forslev (Southwest Mineralogical Field Trip, 1959): minerals and insect-bearing concretions—California

Collected by Dr. John W. Thieret (Northern Great Plains Botanical Field Trip, 1959): fossil gastropod—Canada

Collected by William D. Turnbull and Ronald J. Lambert (Wyoming Paleontological Field Trip, 1959): fossil invertebrates and fossil vertebrates—Wyoming

Purchase: Robert Somerville Collection of fossil mammals—China

Transfer: fossil snail—from Department of Zoology, Chicago Natural History Museum (see Annual Report 1958, page 73 [nonmarine shells collected by the late A. C. Billups] and page 122 [Accessions, Department of Zoology, "Purchases"])

CHRISTENSEN, EARL, Hammond, Indiana: mineral (gift)

DARROW, DAVID L., Peoria, Illinois: fossil coral—Illinois (gift)

DOERRER, MRS. ETHEL, Tinley Park, Illinois: fossil shrimp and trilobites—various localities (gift)

DREGER, PETER H., Chicago: trilobite—Illinois (gift)

HAHN, ARTHUR, Chicago: fossil cephalopod—Illinois (gift)

HENDERSON, DR. EDWARD P., Washington, D.C.: slice of Bonita Spring meteorite—Florida (gift)

HINDS, HAROLD, Portland, Oregon: partial skeleton of fossil salamander—Oregon (gift)

HOUGH, DR. JEAN, Brooklyn: fossil leg-bone of mammal (*Arctoryctes galbreathi*)—North Dakota (gift)

HOUSTON, ROBERT E., Greenville, Mississippi: fossil-mammal fragments and mineral—from bed of Mississippi River (gift)

JAHS, WILLIAM (address lacking): fragments of fossil mammal—Illinois (gift)

JOHNSON, JOSEPH L., Peoria, Illinois: fossil coral—Illinois (gift)

KONIZESKI, DR. RICHARD, Missoula, Montana: fragments of fossil mammals and fossil lizard scute—Montana (gift)

LEUTZE, DR. WILLARD P., Richmond, Indiana: eurypterids and fossil fishes—various localities (gift)

LIPKOWITZ, IRVING, New Rochelle, New York: minerals—various localities (gift)

LUBKING, MR. AND MRS. JOHN, Du-cor, California: fossil snails—California (gift)

MOORE, MICHAEL, Hinsdale, Illinois: fossil fishscale and anthracite coal (gift)

MUSEO CIVICO DI STORIA NATURALE DI MILANO, Milan, Italy: fossil fishes—Italy (open exchange)

NICHOLAS, ALBERT, Chicago: mineral—Poland (gift)

NIELSEN, DR. EIGEL, Copenhagen, Denmark: cast of skull of Eocene turtle (gift)

PIVORUNAS, AUGUST, Chicago: fossil pelecypods—Illinois (gift)

RICHARDSON, DR. EUGENE S., JR., Gurnee, Illinois: fossil fishes and fossil plants—Illinois (gift)

SEIFERT, MARTIN, Carrollton, Texas: fossil invertebrates—Texas (gift)

THATCHER, MRS. C. E., Brookfield, Illinois: mineral (gift)

TRICOMI (full name lacking), Chicago: mineral—Ontario (gift)

WHITFIELD, DR. AND MRS. ROBERT H., Evanston, Illinois: fossil plants—various localities (gift)

WILLIAM J. CHALMERS CRYSTAL FUND: minerals—various localities (purchase)

WILMER, R. E., Aiken, South Carolina: mineral chip—North Carolina (gift)

WOLLIN, JAY, Morton Grove, Illinois: echinoid spines—Kansas (gift)

ZANGERL, DR. RAINER, Hazelcrest, Illinois: casts of five turtles (*Glrichelys knorri*) (gift)

ANDRIS, MISS SOPHIE, Chicago: fox squirrel—Illinois (gift)

BARBOSA, IVETE, Pernambuco, Brazil: 50 inland shells—Brazil (gift)

BASCH, PAUL F., Ann Arbor, Michigan: 25 nonmarine snails—Guatemala (gift)

BEETLE, MRS. DOROTHY E., Laramie, Wyoming: 130 nonmarine landshells—Bighorn Mountains (gift)

BERRY, DR. S. STILLMAN, Redlands, California: 763 snails and clams—western North America (gift)

BIRABEN, DR. M. I. HYLTON SCOTT DE, La Plata, Argentina: 7 lots of landshells—Argentina (exchange)

BLAKE, MISS PEGGY, Evanston, Illinois: bird—Illinois (gift)

BOKERMAN, DR. WERNER C. A., São Paulo, Brazil: 111 reptiles and amphibians—Brazil and Argentina (exchange)

BOTT, MRS. W. G., Arlington Heights, Illinois: 59 sets of seashells—Florida and West Indies (gift)

BRAND, DR. LOUIS, Houston: seashell—Australia (exchange)

BRIGGS, DR. JOHN C., Vancouver, British Columbia, Canada: fish—Mexico (gift)

BRITISH MUSEUM (NATURAL HISTORY), London: 3 frogs—Borneo (exchange); 219 reprints (gift to Reprint Library, Division of Mammals)

BURCH, MRS. ROSE, Los Angeles: cowry—Cook Islands (gift)

BURKHART, MRS. HARRIET, Union City, Pennsylvania: 17 shells—Jamaica (gift)

CALIFORNIA ACADEMY OF SCIENCES, San Francisco: frog—Ryukyu Islands (exchange)

CALIFORNIA AT LOS ANGELES, UNIVERSITY OF, Los Angeles: approximately 900 fishes—various localities (gift)

CAMPOS R., DR. FRANCISCO, Guayaquil, Ecuador: 5 bats—Ecuador (gift)

CARNEGIE MUSEUM, Pittsburgh: 149 birds—various localities (exchange)

CHACE, EMERY P., San Diego: 30 land-snails—Clipperton and Guadeloupe (gift)

CHADBOURNE, MRS. EMILY CRANE, Washington, D.C.: 8 paintings by chimpanzees, 2 paintings by a child (gift)

CHICAGO NATURAL HISTORY MUSEUM: Collected by Emmet R. Blake (Con-over Peru Expedition, 1958): 35 fishes, 8 reptiles and amphibians, 978 bird-skins, 8 mammals—Peru

DEPARTMENT OF ZOOLOGY

ACADEMY OF SCIENCES, ZOOLOGICAL INSTITUTE, Leningrad, U.S.S.R.: 62 reptiles and amphibians—Central and Western Asia (U.S.S.R.) (exchange)

AMERICAN MUSEUM OF NATURAL HISTORY, New York: 2 birds—Argentina and Brazil (exchange); 186 reprints (for Reprint Library, Division of Mammals) (exchange)

Collected by D. Dwight Davis (Malaya Zoological Field Trip, 1958-59): approximately 200 lower invertebrates, 98 reptiles and amphibians, 13 mammals—Singapore and Malaya

Collected by Henry S. Dybas and Dr. Alan Solem (Panama Zoological Field Trip, 1959): approximately 7,000 lower invertebrates, approximately 22,000 insects and allies, 40 reptiles and amphibians—Panama and Canal Zone

Collected by Dr. Fritz Haas (Great Smokies Zoological Field Trip, 1959): 26 lots of inland shells—North Carolina

Collected by Dr. Robert F. Inger (Belgian Congo Zoological Expedition, 1959): 15 frogs—Belgian Congo

Collected by D. S. Rabor (Philippine zoological field work, 1959): 85 reptiles and amphibians, 2,015 birds—Luzon

Collected by Dr. John W. Thieret (Northern Great Plains Botanical Field Trip, 1959): 2 fishes—Canada

Collected by William D. Turnbull (Wyoming Paleontological Field Trip, 1959): horse skeleton, sheep skeleton, horse skull—Washakie Basin

Collected by Kjell von Sneidern (Colombia Zoological Expedition, 1958): 851 ectoparasites, 421 birds, 336 mammals—Colombia

Collected by Rupert L. Wenzel and Rodger D. Mitchell (Guatemala Zoological Expedition, 1948): 12,791 insects—Guatemala

Collected by Loren P. Woods (local field work, 1959) 15 fishes—Lake Michigan; (Co-operative Field Work with United States Fish and Wildlife Service in the West Indies, 1959) 2,298 fishes—West Indies, 3 birds—Florida Straits

Purchases: 38 mammals; 604 birds, 13,270 insects, 338 fishes, approximately 25,000 reptiles and amphibians, approximately 72,000 lower invertebrates

CHICAGO ZOOLOGICAL SOCIETY, Brookfield, Illinois: 6 reptiles and amphibians, 2 birds, 11 mammals—various localities (gift)

CHIN, PHUI KONG, Jesselton, North Borneo: 104 fishes, 17 frog larvae—North Borneo (gift)

CINCINNATI, UNIVERSITY OF, Cincinnati: 2 birds—Chili (exchange)

COBB, N. A., AND DEAN L. MURRAY, Battle Creek, Michigan (Cobb-Murray Expedition to India, 1958): 25 birds, 46 mammals—India (gift)

COLLINGS, STEVE, Rockville, Indiana: about 200 millipedes—Indiana (gift)

COLORADO, UNIVERSITY OF, Boulder: 62 nonmarine snails—worldwide (gift)

DARNELL, DR. R. M., Milwaukee: approximately 4,300 lower invertebrates—Louisiana (gift); 5 fishes—Wisconsin (gift)

DOMINION MUSEUM, Wellington, New Zealand: 3 birds—New Zealand (gift)

DONOVAN, J. W., Palm Beach, Florida: snail—Tanganyika (gift)

EIGSTI, W. E., Hastings, Nebraska: 19 fleas, 4 ticks—Nebraska (gift); 1 bird—Borneo (gift)

EYERDAM, WALTER J., Seattle: 2 lots of pearly freshwater mussels—Washington (gift)

FARBER, MRS. MAUDE A., Beverly Hills, Illinois: duck-billed platypus—New South Wales (gift)

FIELD, DR. HENRY, Coconut Grove, Florida: 2 landshells—Arabia (gift)

FLEMING, DR. ROBERT L., Kathmandu, Nepal: 110 birdskins—Nepal (gift)

FLORIDA STATE BOARD OF CONSERVATION MARINE LABORATORY, St. Petersburg: 3 fishes—off Florida (gift)

FRENCH, N. R., Idaho Falls, Idaho: 7 birds, 1 mammal—Ecuador (gift)

FUCHS, L. H., Downers Grove, Illinois: 2 pairs of deer antlers—Philippine Islands (gift)

GRAYBEAL, RICHARD, Great Lakes, Illinois: about 250 nonmarine shells—Idaho and California (gift)

GREGG, DR. CLIFFORD C., Valparaiso, Indiana: 17 insects—Europe (gift)

HENDRICKSON, DR. JOHN R., Singapore, Malaya: 1 fish, 98 frogs, 12 turtles—Malaya (gift)

HERSHKOVITZ, PHILIP, South Holland, Illinois: 180 reprints (gift to Reprint Library, Division of Mammals)

HOGER, C. E., St. Louis: 6 landshells—Illinois (gift)

HOOGSTRAAL, HARRY, Cairo, Egypt: 221 insects—Near and Middle East, Portugal, Egypt, North Africa, and Brazil (gift); 145 reptiles and amphibians, 859 birds, 202 mammals—Egypt (gift)

HOY, GUNNAR, Salta, Argentina: 408 birds—Argentina (gift)

HUBRICHT, LESLIE, Catonsville, Maryland: 27 landshells—New York (gift)

HURD, DR. PAUL D., JR., Berkeley, California: 11 bees—United States and Central and South America (gift)

INAHARA, NOBUO, Osaka, Japan: 109 histerid beetles—Japan (exchange)

INSTITUT ROYAL DES SCIENCES NATURELLES DE BELGIQUE, Brussels: 2,185 frogs—Belgian Congo (exchange)

JACKSON, RALPH W., Cambridge, Maryland: approximately 100 nonmarine mollusks—worldwide (exchange)

KALINOWSKI, CELESTINO, Iquitos, Peru: 397 insects—Peru (gift)

KENNEDY, MISS BESS, Grafton, West Virginia: pair of miniature ivory dogs carved by Carl E. Akeley (gift)

KNOLL, DR. J. N., Columbus, Ohio: 27 beetles—southwestern United States (gift)

KOOPMAN, DR. KARL, Chicago: 45 reprints (gift to Reprint Library, Division of Mammals)

KOSSWIG, DR. C., Hamburg, Germany: 8 lizards—Iraq (exchange)

KOVACIK, FRANK, Indian River City, Florida: scarab beetle—Florida (gift)

KRAUSS, DR. N. L. H., Honolulu: 21 histerid beetles—Ceylon (exchange); 51 reptiles and amphibians—Washington, Panama, New Caledonia, New Hebrides, India, Ceylon, Indochina, and Philippine Islands (gift); 1 eel—Panama (gift)

KUNTZ, DR. ROBERT E., care of APO, San Francisco: 497 reptiles and amphibians—Formosa, Orchid Island (near Formosa), and Philippine Islands (exchange); 809 mollusks—Formosa (gift)

LAIRD, DR. MARSHALL, Quebec, Canada: 36 lizards—Tokelau (gift)

LIEM, DR. KAREL F., Urbana, Illinois: 46 frogs—Java (gift)

LINCOLN PARK ZOO, Chicago: 2 reptiles, 1 bird, 2 mammals—various localities (gift)

LOPES, H. DE SOUSA, Rio de Janeiro, Brazil: 30 inland shells—Brazil (gift)

MALARIA SURVEY AND CONTROL BRANCH, Fort Clayton, Panama Canal Zone: 427 batflies—Panama (gift)

MANY, MASTER CHARLES, New Orleans: 12 landsnails—North Carolina (gift)

MAUER, MRS. J. T., Chicago: 16 moths—Michigan (gift)

MCMAMARA, MRS. R. E., Kirkwood, Missouri: 68 mollusks—Missouri (gift)

MICHIGAN, UNIVERSITY OF, MUSEUM OF ZOOLOGY, Ann Arbor: 21 landsnails—Central and South America (exchange); 6 fishes—Mexico (exchange)

MITCHELL, DR. RODGER D., Gainesville, Florida: 3 watermites—Vermont (gift)

MOSELEY, MRS. SPENCER, Barrington, Illinois: snailshell—Australia (exchange)

MUSÉE ROYAL DU CONGO BELGE, Tervuren, Belgium: 57 fishes—Belgian Congo (exchange); 48 frogs—Belgian Congo and Angola (exchange)

MUSEO ARGENTINO DE CIENCIAS NATURALES, Buenos Aires, Argentina: bird—Argentina (exchange)

MUSEO CIVICO DI STORIA NATURALE, Genoa, Italy: 7 frogs, 5 lizards—Burma, Indo-Australia, and Uganda (exchange)

MUSEUM AND ART GALLERY, Durban, Union of South Africa: 127 birds—South Africa (exchange); 3 birds—South Africa (gift)

MUSEUM G. FREY, Munich, Germany: 208 beetles—Palearctic Region (exchange)

MUSEUM OF COMPARATIVE ZOOLOGY, Cambridge, Massachusetts: bird—Panama (exchange)

PARK, DR. ORLANDO, Evanston, Illinois: 658 birds, 690 mammals—United States (gift)

PARKER, MRS. WINTON, Kirkwood, Missouri: 20 mollusks—Missouri (gift)

PASTEUR, DR. GEORGES, Rabat, Morocco: 64 reptiles and amphibians—French Morocco (exchange)

PERRET, DR. JEAN-LUC, Foulassi Sangmelima, Cameroun, French West Africa: 15 frogs—West Africa (exchange); 2 frogs—West Africa (gift)

PFAFF, DR. REINALDO, Cartagena, Colombia: 46 shells—Colombia (gift)

PLATH, KARL, Oak Park, Illinois: bird—Philippine Islands (gift)

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| American, John G. | Ballard, Mrs. Foster K. | Behr, Mrs. Edith |
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| Anderson, Carlyle E. | Barbera, Joseph | Benner, Harry |
| Anderson, Francis M. | Barden, Horace G. | Bennett, Bertram W. |
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| Angelopoulos, Archie | Barkhausen, L. H. | Benson, Mrs. |
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 Howse, Richard G.
 Howson, Louis R.
 Hoyne, Miss Susan D.
 Hoyt, Mrs. Phelps B.
 Hraback, L. W.
 Hrdlicka, Mrs. John D.
 Hubachek, Frank Brookes
 Huber, Dr. Harry Lee
 Hudson, Miss Katherine J.
 Huey, Mrs. A. S.
 Hufty, Mrs. F. P.
 Huggins, G. A.
 Hughes, Dr. Charles E.
 Hughes, John E.
 Hume, James P.
 Humphrey, H. K.
 Huncke, Oswald W.
 Hunding, B. N.
 Hunt, George L.
 Hunt, Jarvis
 Hunt, Mrs. William O.
 Huska, Mrs. Joseph
 Hust, George
 Huszagh, Ralph D.
 Hutchinson, Foye P.
 Hutchinson, Samuel S.
 Huth, Frank D.
 Hyatt, R. C.
 Hypes, William P.
 Ickes, Raymond W.
 Idelman, Bernard
 Igoe, Michael L.
 Iker, Charles
 Ilg, Robert A.
 Ilg, Paul F.
 Illich, George M., Jr.
 Ingalls, Allin K.
 Ingersoll, Roy C.
 Ingersoll, Mrs. S. L.
 Ingram, Frank H.
 Inlander, N. Newton
 Inlander, Samuel
 Irons, Dr. Ernest E.
 Irvine, George L.
 Isham, George S.
 Isham, Henry P.
 Isham, Henry P., Jr.
 Ives, Clifford E.
 Ives, George R.
 Jackson, Allan
 Jackson, Archer L.
 Jackson, Byrne A.
 Jackson, Mrs. W. A.
 Jacobi, Miss Emily C.
 Jacobs, Julius
 Jacobs, Mrs. Walter H.
 Jacobs, Walter L.
 Jacobson, A. J.
 Jacobson, Arent J.
 Jacobson, Raphael
 Jahn, Reinhardt H.
 James, Walter C.
 Jameson, Clarence W.
 Jancosek, Thomas A.
 Jansey, Dr. Felix
 Janson, Dr. C. Helge M.
 Janusch, Fred W.
 Jarchow, Mrs. C. E.
 Jarchow, Robert B.
 Jeffries, Dr. Daniel W.
 Jerger, Wilbur Joseph
 Jessen, Floyd E.
 Jessen, Dr. George N.
 Jetzinger, David
 Jirgal, John
 Jirka, Dr. Frank J.
 John, Dr. Findley D.
 Johnson, Dr. Adelaide
 Johnson, Alvin O.
 Johnson, Calmer L.
 Johnson, Mrs. Harley Alden
 Johnson, Herbert M.
 Johnson, Hjalmar W.
 Johnson, Norman E.
 Johnson, Mrs. O. W.
 Johnson, P. Sveinbjorn
 Johnson, Philip C.
 Johnston, Edward R.
 Johnston, Miss Fannie S.
 Johnston, Mrs. Hubert McBean
 Johnston, Hulburd
 Johnston, Mrs. M. L.
 Jolly, Miss Eva Josephine
 Jonak, Frank J.
 Jones, Dr. Fiske
 Jones, Gordon M.
 Jones, James B.
 Jones, Dr. Margaret M.
 Jones, Melvin
 Jones, Miss Susan E.
 Jordan, Horace W.
 Joseph, Mrs. Jacob G.
 Joseph, Louis L.
 Joy, Guy A.
 Judson, Clay
 Juergens, H. Paul
 Julien, Victor R.
 Kahn, Mrs. Arthur S.
 Kahn, J. Kesner
 Kahn, Jerome J.
 Kaine, James B.
 Kaiser, Dr. George D.
 Kamins, Dr. Maclyn M.
 Kane, Jerome M.
 Kanter, Jerome J.
 Kaplan, Morris I.
 Kaplan, Nathan J.
 Kaplan, Stanley A.
 Kasakoff, Lawrence
 Kasch, Frederick M.
 Kass, Joseph J.
 Katz, Mrs. Sidney L.
 Katz, Solomon
 Katz, William
 Katzenstein, Mrs. George P.
 Katzin, Frank
 Kauffmann, Alfred
 Kaufman, Justin
 Kaufmann, Dr. Gustav L.
 Kavanagh, Clarence H.
 Kay, Mrs. Marie E.
 Keach, Benjamin
 Keare, Mrs. Spencer R.
 Kearney, A. T.
 Kearns, Mrs. Jerry J.
 Keene, William J.
 Keeshin, J. L.
 Kehoe, Mrs. High Boles
 Keith, Stanley
 Kelemen, Rudolph
 Kelly, Arthur Lloyd
 Kelly, Barbara Wetten
 Kelly, Mrs. Haven Core
 Kelly, T. Lloyd
 Kelsey J. D.
 Kemper, Hathaway G.
 Kemper, Miss Hilda M.
 Kemper, James S.
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 Kempner, Stan
 Kendrick, John F.
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 Kennedy, Lesley
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 Kenny, Henry
 Kent, Robert H.

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 Kern, H. A.
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 Kern, Trude
 Kerwin, Edward M.
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 Kettering, Mrs.
 Eugene W.
 Ketzier, A. C.
 Kew, Mrs. Stephen M.
 Kidwell, L. B.
 Kiefer, Dr. Joseph H.
 Kiessling, Mrs. Charles S.
 Kile, Miss Jessie J.
 Kimball, Paul C.
 Kimball, William W.
 Kimbark, John R.
 King, Mrs. Charles G.
 King, Clinton B.
 King, Harold R.
 King, Mrs. John
 Andrews
 Kingman, Mrs. Arthur G.
 Kinsey, Robert S.
 Kirkland, Mrs.
 Weymouth
 Kirst, Lyman R.
 Kitchell, Howell W.
 Kitzelman, Otto
 Klee, Steven Michael
 Kleinpell, Dr. Henry H.
 Kleist, Mrs. Harry
 Kleppinger, William H.
 Kleutgen, Dr. Arthur C.
 Klinetop, Mrs. Charles W.
 Knapp, William G.
 Knickerbocker, Miss
 Paula
 Knight, Howard
 Knight, John S.
 Knopf, Andrew J.
 Knutson, George H.
 Koch, Mrs. Fred J.
 Koch, Raymond J.
 Koch, Robert J.
 Kochs, August
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 Koerber, Lorenz F., Jr.
 Kohn, Henry L.
 Kolbe, Frank F.
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 Kopf, Miss Isabel
 Kopinski, Louis
 Koppenaar, Dr.
 Elizabeth Thompson
 Kornblith, Mrs.
 Howard G.
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 Kotin, George N.
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 Kraft, John H.
 Kraft, Norman
 Kralovec, Emil G.
 Kralovec, Mrs. Otto J.
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 Kraus, William C.
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 Herman L., Jr.
 Krez, Leonard O.
 Kribben, Arthur K.
 Kribben, Delafield
 Krider, E. A.
 Kroehler, Kenneth
 Kroeschell, Robert A.
 Kropff, C. G.
 Krost, Dr. Gerard N.
 Krupnick, Samson
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 Kuehne, E. Richard
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 Kuhn, Dr. Hedwig S.
 Kunka, Bernard J.
 Kunstadter, Albert
 Kunstadter, Sigmund W.
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 Kurzdorfer, E. T.
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 Atchison
 Laffin, Louis E., Jr.
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 Laffin, Louis E., III
 Laffin, Miss Mary
 Josephine
 Laing, Mrs. Milton L.
 Laing, William
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 Lamberton, R. H.
 Lamberton, John G.
 Lambrecht, Carl R., Jr.
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 Alice R.
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 Taylor
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 Edward Boylston
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 Lassers, Sanford B.
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 Leadbetter, Gordon
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 Lefens, Walter C.
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 Leichenko, Peter M.
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 Leighton, George N.
 Leith, John A.
 Leland, Miss Alice J.
 Leland, Mrs. Rosco G.
 Lennon, George W.
 Lello, Herbert F.
 Leonard, Arthur T.
 Lerch, William H.
 Lessman, Gerhard
 Le Tourneau, Mrs.
 Robert
 Levering, J. E.
 Levi, Julian H.
 Levinson, Mrs. Salmon O.
 Levitan, Benjamin
 Levy, Alexander M.
 Levy, Arthur G.
 Lewendowski,
 Sigmund W.
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 Ley, Robert J.
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 Lizzardo, Joseph F.
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 Lodge, Robert H.
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 Loewenberg, M. L.
 Loewenherz, Emanuel
 Loewenstein, Richard M.
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 Long, William E.
 Loomis, D. P.
 Loomis, Reamer G.
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 Lord, John S.
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 Lorentz, Arthur G.
 Lotz, Philip W.
 Loucks, Charles O.
 Louer, Albert E. M.
 Louis, Mrs. John J.
 Loundy, Mrs. Mason A.
 Lovgren, Carl
 Lowell, Arthur J.
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 Lucey, Patrick J.
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 Ludolph, Wilbur M.
 Lundy, Dr. Clayton J.
 Luria, Herbert A.
 Lusk, R. R.
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 Lynch, J. W.
 Lyon, Charles H.

Mabee, Mrs. Melbourne
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 MacDonald, E. K.
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 MacKiewich, Justin
 Mackinson, Dr. John C.
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 John A., Jr.
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 MacMurray, Mrs.
 Donald

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 J. deNavarre, Jr.
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 Albert F., Jr.
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 Magan, Miss Jane A.
 Magerstadt, Madeline
 Magnus, Albert, Jr.
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 Maher, Dr.
 David Bremner
 Maher, Mrs. D. W.
 Main, Walter D.
 Majka, F. L.
 Major, Ross O.
 Majors, Mrs. B. S.
 Makler, Joseph H.
 Maling, Albert
 Manasse, De Witt J.
 Manaster, Harry
 Mandel, Mrs. Aaron W.
 Mandel, Edwin F.
 Mandel, Miss Florence
 Mandel, Mrs. Robert
 Manegold, Mrs.
 Frank W.
 Manierre, Louis
 Manz, Mrs. Carolyn D.
 Marchant, Miss Lilian
 Maremont, Arnold H.
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 Marker, Van E.
 Markus, Alfred S.
 Marquart, Arthur A.
 Marquardt, Dr.
 Gilbert H.
 Marsh, A. Fletcher
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 Marsh, Peter John
 Martin, Mrs. George B.
 Martin, George F.
 Martin, Samuel H.
 Martin, Wells
 Marx, Adolf
 Marzluff, Frank W.
 Marzola, Leo A.
 Mason, Arnold D. K.
 Mason, Willard J.
 Masse, B. A.
 Masterson, Peter
 Mathesius, Mrs. Walther
 Mathis, Allen W.
 Matson, J. Edward
 Maurer, Dr. Siegfried
 Maxant, Basil
 Maxwell, A. K., Jr.
 Maxwell, Lloyd R.
 Maxwell, W. Stirling
 Mayer, Frank D.

Mayer, Herman J., Jr.
 Mayer, Isaac H.
 Mayer, Leo
 Mayer, Oscar G.
 Mazurek, Miss Olive
 McAlvin, Mrs. James H.
 McArthur, Billings M.
 McCahey, James B.
 McCarl, David N.
 McCarthy, Joseph W.
 McCausland, Mrs.
 Clara L.
 McCloud, Thomas W.
 McClun, John M.
 McCormick, Mrs.
 Chauncey
 McCormick, Howard H.
 McCormick, Lenader J.
 McCormick,
 Robert H., Jr.
 McCormick, Roger
 McCrea, Mrs. W. S.
 McCreight, Louis Ralph
 McCutcheon, Mrs.
 John T.
 McDavid, Raven I., Jr.
 McDonald, E. F., Jr.
 McDonald, Lewis
 McDougal, C. Bouton
 McDougal, David B.
 McDougal, Mrs. James B.
 McDougal, Mrs. Robert
 McErlean, Charles V.
 McGraw, Max
 McGurn, Matthew S.
 McKinney, Mrs. Hayes
 McKittrick, C. E.
 McLennan, Mrs.
 Donald R., Sr.
 McLennan, William L.
 McMenamy, Logan T.
 McMillan, John
 McMillan, W. B.
 McNair, F. Chaloner
 McNamara, Louis G.
 McNamara, Robert C.
 McNamee, Peter F.
 McNulty, Joseph D.
 McPherson, Cleo Edwin
 McQuarrie, Mrs. Fannie
 McReynolds, Mrs.
 Ruth M.
 Mead, Dr. Henry C. A.
 Medsker, Dr. Ora L.
 Meers, Henry W.
 Mehan, Mrs.orgette
 Meidell, Harold
 Melcher, George Clinch
 Melody, Miss Margaret
 Melnick, Leopold B.
 Merriam, Miss Eleanor

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- Merricks, Mrs. James W.
 Merrill, Miss Marion E.
 Mettenet, Francis X.
 Metz, Dr. Arthur R.
 Metzger, Roswell W.
 Meyer, Mrs. A. H.
 Meyer, Charles A.
 Meyer, Dr. Charles A.
 Meyer, Charles Z.
 Meyerhoff, A. E.
 Meyers, Erwin A.
 Meyers, Jonas
 Michaels, Allen C.
 Michaels, Everett B.
 Michalko, Edward
 Michel, D. Daniel
 Michel, Dr. William J.
 Michet, Dr. Clement J.
 Middleton, J. A.
 Midowicz, C. E.
 Mielenz, Robert K.
 Milburn, Miss Anne L.
 Milhening, Frank
 Milhoan, F. B.
 Miller, Miss Bertie E.
 Miller, Mrs. Clayton W.
 Miller, Creighton S.
 Miller, Mrs. Donald J.
 Miller, Mrs. F. H.
 Miller, Mrs. George
 Miller, Hyman
 Miller, John S.
 Miller, Mrs. Olive
 Beaupre
 Miller, Oren Elmer
 Miller, William H.
 Milliken, John F.
 Mills, Allen G.
 Mills, Mrs.
 Dorothy Stone
 Mills, Lloyd Langdon
 Miner, Dr. Carl S.
 Mitchell, John J.
 Mock, Dr. Harry Edgar
 Moeller, George
 Moist, Mrs. Samuel E.
 Mojonniier, Timothy
 Mollan, Mrs. Ferne T.
 Molloy, David J.
 Mong, Mrs. C. R.
 Monheimer, Henry I.
 Moore, Chester G.
 Moore, Harold A.
 Moore, Oscar L.
 Moore, Paul
 Moore, Philip Wyatt
 Morey, Dr. Charles W.
 Morgan, Miss
 Elizabeth W.
 Moroni, Aldo L.
 Morrison, Mrs. Harry
 Morrison, James C.
 Morrow, Mrs. John, Jr.
 Morse, Mrs. Charles J.
 Morse, Leland R.
 Morse, Mrs. Milton M.
 Morse, Robert H.
 Morton, Sterling
 Moses, Howard A.
 Mosher, Edward A.
 Moss, Jerome A.
 Moss, John T.
 Mossman, John E.
 Mostek, Raymond
 Mouat, Andrew J.
 Moxon, Dr. George W.
 Moyer, Mrs. Paul S.
 Muehlstein, Mrs.
 Charles
 Mueller, Austin M.
 Mueller, J. Herbert
 Mulcahy, Mrs.
 Michael F.
 Mulhern, Edward F.
 Munnecke, Wilbur C.
 Munroe, Moray
 Munroe, Roy B.
 Murphy,
 Carroll Dean, Jr.
 Murphy, Charles F.
 Murphy, Joseph D.
 Murphy, O. R.
 Murphy, Robert E.
 Muszynski, John J.
 Myers, Harold B.
 Myrland, Arthur L.
 Naess, Sigurd E.
 Nafziger, R. L.
 Nagel, Mrs. Frank E.
 Nance, Willis D.
 Nathan, Joseph E.
 Naumann, Miss Susan
 Nebel, Herman C.
 Neely, Mrs. Lloyd F.
 Nehls, Arthur L.
 Nelson, Arthur W.
 Nelson, Charles G.
 Nelson, James S.
 Nelson, Victor W.
 Neskow, Dr. Peter S. Y.
 Nessler, Robert P.
 Neuman, Sidney
 Neumann, Arthur E.
 Newberger, Arnold
 Newberger, Joseph
 Michael
 Newhouse, Karl H.
 Newman, Charles H.
 Newton, C. G.
 Nichols, Frank Billings
 Nichols, J. C.
 Nietschmann, Walter
 Nilsson, Mrs.
 Goodwin M.
 Nishkian, Mrs.
 Vaughn G.
 Nitze, Mrs. William A.
 Noble, Daniel E.
 Noble, Samuel R.
 Noonan, Edward J.
 Norell, Elmer G.
 Norem, Mrs. Lawrence E.
 Norian, Richard
 Norman, Harold W.
 Norris, Mrs. Lester
 Norton, Christopher D.
 Novak, Charles J.
 Noyes, Mrs. May Wells
 Nusbaum, Mrs.
 Hermien D.
 Nyman, Dr. John Egbert
 Oberfelder, Walter S.
 Obermaier, John A.
 O'Brien, Miss Janet
 O'Connell, Edmund
 Daniel
 Offield, Wrigley
 Oglesbee, Nathan H.
 O'Keeffe, William F.
 Okner, Dr. Henry B.
 Olaison, Miss Eleanor O.
 Oldefest, Edward G.
 Oleson, Wrisley B.
 Olin, Carl E.
 Oliver, Dr. Marguerite
 Oliver, Mrs. Paul
 Olsen, Miss Agnes J.
 Olsen, Mrs. Arthur O.
 O'Neil, Dr. Owen
 O'Neill, J. W.
 Onofrio, Mrs. Michael J.
 Ooms, Casper William
 Opeka, Frank M.
 Oppenheimer, Mrs.
 Harry D.
 Oppenheimer, Seymour
 Orndoff, Dr. Benjamin H.
 O'Rourke, Albert
 O'Rourke, Mrs. Harry J.
 Orr, Mrs. Robert C.
 Orr, Thomas C.
 Ortmyer, Dr. Marie
 Oser, Nelson A.
 Osgood, Mrs. Gilbert H.
 Ostrom, Mrs. J. Augustus
 O'Sullivan, James J.
 Otis, Joseph Edward, Jr.
 Otis, Peter Witherspoon
 Otis, Stuart Huntington
 O'Toole, Donald
 Ott, Mrs. Fentress

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- Ott, John Nash, Jr.
Owens, Harry J.
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Packard, Dr. Rollo K.
Paepcke, Walter P.
Page, John W.
Pallasch, Dr. Gervaise P.
Palm, Felix
Palmer, James L.
Palmgren, Mrs.
Charles A.
Pandaleon, Costa A.
Papierniak, Dr. Frank B.
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Park, R. E.
Parker, Miss Edith P.
Parker, Norman S.
Parker, Troy L.
Parks, C. R.
Parmelee, Dr. A. H.
Parry, Mrs. Norman G.
Patridge, Lloyd C.
Paschen, Mrs. Henry
Pashkow, A. D.
Patchen, Dr. Paul J.
Patrick, Harry H.
Patterson, Grier D.
Patterson, R. Curtis
Patterson, Thomas A.
Patton, A. E.
Patzelt, Miss Janet
Peabody, Howard B.
Peabody, Miss Susan W.
Peacock, Charles D., III
Pearl, Allen S.
Pearse, Mrs. Langdon
Pearson, George
Albert, Jr.
Peirce, Albert E.
Pellettieri, Dr. D. J.
Pellicore, Dr.
Raymond J.
Pencik, Jan M.
Perel, Harry Z.
Perkins, Harry D.
Perlman, Daniel
Perlman, Henry
Perlman, Raymond L.
Perry, Mrs. I. Newton
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Petersen, Jurgen
Petersen, William O.
Peterson, Mrs.
Elizabeth F.
Pettibone, Holman D.
Pfaelzer, Miss
Elizabeth W.
Pflaumer, Robert E.
Pflock, Dr. John J.
- Philipsborn,
Herbert F., Sr.
Philipsborn,
Colonel M. M., Jr.
Phillips, Dr. Herbert
Morrow
Phoenix, George E.
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Pierce, J. Norman
Pierce, Paul, Jr.
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Pink, Mrs. Ira M.
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Pirie, Mrs. John T.
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Platt, Mrs. Robert S.
Plochman, Cordelia G.
Plummer, Comer
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Hayes
Poister, John J.
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Polyak, Stephen, Jr.
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Pope, John W.
Poppenhagen, Henry J.
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Porter, L. W.
Porter, Louis
Porter, Mrs. Sidney S.
Posey, Chester L.
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Potter, Robert E., Jr.
Potts, Albert W.
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Powells, Michael A.
Prall, Bert R.
Pray, Max
Preble, Robert C.
Price, John McC.
Primley, Walter S.
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Prince, Harry
Prince, Rev. Herbert W.
Prince, Leonard M.
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Probst, Marvin G.
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Proxmire, Dr.
Theodore Stanley
Prussing, Mrs. R. E.
Pucci, Lawrence
- Purcey, Victor W.
Puttkammer, E. W.
- Quick, Miss Hattiemae
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- Racheff, Ivan
Radebaugh, Richard J.
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Radovich, Miss Bessie
Raff, Mrs. Arthur
Raftree, Miss Julia M.
Railton, Miss Frances
Ramis, Leon Lipman
Randall, Rev. Edwin J.
Randall, Irving
Raney, Mrs. R. J.
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Rathje, Frank C.
Ratner, Walter B.
Ray, Harold R.
Raymond, Mrs.
Howard D.
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Farnsworth, Jr.
Redfield, William M.
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Reed, Mrs. Lila H.
Reed, Mrs. Philip L.
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Reid, Bryan S., Jr.
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Reilly, Vincent P.
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Marie Katherine
Renaldi, George J.
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Rentschler, Mrs.
William H.
Re Qua, Mrs. Charles
Howard, Jr.
Re Qua, Haven A.
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Reynolds, Mrs.
G. William
Reynolds, Harold F.
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Rice, Laurence A.
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Rich, Harry
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Richards, Donald

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Rietz, Walter H.
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Risdon, Russell R.
Ritchie, Mrs. John
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Roberts, William
Munsell
Robinson, Edward
Robinson,
Theodore W., Jr.
Robinson, William S.
Roddewig, Clair M.
Roderick, Solomon P.
Rodgers, Dr. David C.
Rodman, Thomas
Clifford
Rodman, Mrs. Hugh
Roe, Frederick
Roebuck, Mrs. A. S.
Roehling, Mrs. Otto G.
Roehm, George R.
Rogers, Miss Annie T.
Rogers, Mrs. George P.
Rogers, Lester C.
Roggenkamp, John
Rolnick, Dr. Harry C.
Romane, Julian J. (Pat)
Root, John W.
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Rose, Miss Evelyn
Rosen, M. R.
Rosenbaum, Mrs.
Edwin S.
Rosenbaum, Mrs.
Harold A.
Rosenfeld, M. J.
Rosenstone, Nathan
Rosenstone, Samuel
Rosenthal, J. F.
Rosenthal, M. A.
Rosenthal, Samuel R.
Rosenwald, Richard M.
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Ross, Robert C.
Ross, Thompson
Ross, Walter S.
Roth, Mrs. Margit
Hochsinger
Rothacker, Watterson R.
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William
Rothschild,
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Runnells, John S.
Ruppert, Max K.
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Russell, Robert S.
Rutledge, George E.
Ryan, Arthur
Ryan, Eugene F.
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Sackett, Samuel J.
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Saks, Benjamin
Salk, Erwin A.
Salk, Dr. Melvin R.
Salmon, Mrs. E. D.
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Sampsell, Marshall G.
Sampson, H. R.
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Sandler, George S.
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| Thompson | Nelson, Donald M. | |
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 Sanders, Joseph H.
 Sanders, Robert L.
 Sandquist, Elroy C., Jr.
 Sandrok, Edward G.
 San Filippo, Dr. Paul D.
 Sang, Bernard S.
 Sang, Philip D.
 Sanow, Harry R.
 Sappanos, Michael
 Satter, Mark J.
 Sauerman, John A.
 Saunders, Richard S.
 Savage, Mrs. Stanley
 Savin, V. R.
 Sawyer, Percy
 Sax, Leonard B.
 Saxner, Morris
 Sayre, Dr. Loren D.
 Scala, Mrs. Florence
 Scalbom, O. Trumbull
 Scallon, John W.
 Scandiff, Jerry R.
 Scanlan, Joseph M.
 Scanlan, Thomas P.
 Scanlon, Miss Marjorie
 Scarborough, Mrs. Henry
 Schaar, B. E.
 Schaden, Harry
 Schaden, Tobias
 Schaefer, W. A.
 Schaffner, Arthur B.
 Schaffner, Miss Marion
 Schageman, R. V.
 Schaller, George J.
 Schallman, David A.
 Schallmoser, Joseph
 Schanfield, Leonard
 Scheele, A.
 Scheinfeld, Aaron

 Schelly, Mrs. Herbert S.
 Schelthoff, John W.
 Scheman, Dr. Louis
 Schiff, Max
 Schildt, Fred H.
 Schiller, Dr. A. L.
 Schiller, Arthur J.
 Schiltz, M. A.
 Schimpf, Jack E.
 Schipfer, Dr. L. A.
 Schlacks, Howard F.
 Schlessinger, Dr. Nathan
 Schlicht, B. J.
 Schloer, Harold J.
 Schloerb, Robert G.
 Schlossberg, John B.
 Schlossman, Norman J.
 Schonehil, Dr. Edward J.
 Schmidt, Robert George
 Schmidt, Mrs.
 Siegfried G.
 Schmitt, Roland G.
 Schneider, Charles I.
 Schoch, M. G.
 Schoeneberger, Charles A.
 Schoenhofen, Leo H.
 Schonthal, Joseph
 Schooler, Lee
 Schoonhoven, Ray J.
 Schorn, Arnold N.
 Schrade, L. H.
 Schrader, John P.
 Schragar, Charles L.
 Schreyer, Carl G.
 Schroeder, Paul A.
 Schroeder, Werner W.
 Schrom, Archie M.
 Schuck, E. H.
 Schulien, Charles
 Schultz, Chester H.
 Schultz, Eugene B., Jr.
 Schultz, Whitt N.
 Schumaker, L. C.
 Schureman, Jean L.
 Schuttler, Mrs. Peter
 Schwartz, Ben E.
 Schwartz, Edward H.
 Schwartz, Leo J.
 Schwartz, Milton H.
 Schwartz, Nathan H.
 Schwartz, Dr. Steven O.
 Schweers, Richard H.
 Schwemm, Earl M.
 Sciaky, Sam
 Scofield, Clarence P.
 Scott, Frederick H.
 Scott, George A. H.
 Scott, Mrs. J. Russell
 Scott, Mrs. Marion R.
 Scott, Walter B.
 Scott, Dr. Winfield W.

ANNUAL MEMBERS (CONTINUED)

Scrimgeour, Miss Gladys M.
 Scully, Charles F.
 Seaholm, A. T.
 Searson, R. V.
 Seator, Douglas S.
 Seaverns, George A., Jr.
 Seeley, Robert M.
 Seelmayer, Miss Helen M.
 Segal, J. Herzl
 Segal, Max
 Segal, Myron M.
 Seib, John R.
 Seibert, William R.
 Seibold, Mrs. Arthur B., Jr.
 Seidel, Walter H.
 Seitz, Claude T.
 Selfridge, Calvin F.
 Sell, N. J.
 Sellers, Paul A.
 Selz, Frank E.
 Sensenbrenner, O. K.
 Sethness, C. H., Jr.
 Sevcik, John G.
 Severns, Roger L.
 Sevic, Mrs. William
 Sewell, Allen K.
 Sexton, Thomas G.
 Seymour, Fletcher
 Shafer, Frederick C.
 Shafer, Dr. S. J.
 Shaffer, Harry G.
 Shalla, Dr. Leon S.
 Shannon, Peter M.
 Shantz, Marc A.
 Shapiro, Samuel B.
 Shaw, Lee C.
 Shearer, James, II
 Shedd, Mrs. Charles C.
 Shedd, Jeffrey
 Sheehan, Thomas J.
 Sheen, Al B.
 Sheldon, Leo C.
 Shepard, Kenneth E.
 Shepard, L. L.
 Sherer, Mrs. Albert W.
 Sheridan, Leo J.
 Sheridan, Raymond M.
 Sherman, John H.
 Sherman, Robert T.
 Shetler, Stanley L.
 Shields, G. A.
 Shilton, Earle A.
 Shine, Joseph J.
 Shipley, M. L.
 Shlaes, Harry L.
 Shlopach, Wallace B.
 Short, Charles F., Jr.
 Short, William H.
 Shrader, Frank K.
 Shuart, Karl P.
 Shuffitowski, Joseph T.
 Shriver, Robert Sargent, Jr.
 Shropshire, R. C.
 Sibley, Joseph C., Jr.
 Siebel, George E.
 Sieber, Paul E.
 Siebert, C. Stuart, Jr.
 Sierocinski, E. John
 Silber, Newton E.
 Silverthorne, Mrs. George
 Simon, Dr. Nicholas M.
 Simmons, George H.
 Simmons, Nicholas L.
 Simon, Mrs. Arnold B.
 Simon, Charles H.
 Simon, George E.
 Simpson, Benjamin I.
 Simpson, John B.
 Sims, Edwin W., Jr.
 Singer, Leo
 Singer, Morris T.
 Sinnerud, Dr. O. P.
 Sippel, Edward A.
 Sitron, Dr. Harold H.
 Sittler, Dr. W. Walter
 Sivyver, Warner
 Skaff, Mrs. Ernest
 Sklar, N. Raoul
 Skudera, Mrs. Marie
 Slasor, Floyd
 Sloan, Dr. Jack H.
 Sloan, Dr. Noah H.
 Smaha, O. O.
 Smalley, B. L.
 Smalley, Dr. Charles J.
 Smalley, John H.
 Smick, Robert W.
 Smith, Bernard Peacock
 Smith, Bruce M.
 Smith, C. D.
 Smith, Charles L.
 Smith, Curtis
 Smith, F. Gordon
 Smith, George P. F.
 Smith, H. Kellogg
 Smith, H. William
 Smith, Harold A.
 Smith, John F., Jr.
 Smith, Miss Marie A.
 Smith, Mrs. Raymond F.
 Smith, Robert C.
 Smith, Mrs. Solomon B.
 Smyth, David B.
 Snitoff, Howard J.
 Snodell, Walter S., Jr.
 Snyder, Bernard
 Snyder, Bernard A.
 Snyder, Franklin Bliss, Jr.
 Soanes, Dr. Sidney V.
 Sollitt, Sumner S.
 Solomon, Ezra
 Somerville, Mrs. William
 Sommers, Bert Edward
 Sonderby, Max E.
 Sonne, Fred T.
 Sonoda, Miss Louise
 Soper, Taylor G.
 Sorock, Herbert S.
 Sorrelle, E. Courtney
 Spangler, James C.
 Spanik, Miss Anne
 Spanjer, Henry J., Jr.
 Sparberg, Sidney J.
 Spark, David I.
 Spaulding, J. B.
 Specht, Mrs. F. W.
 Speigel, Dr. I. Joshua
 Spencer, Mrs. Humphrey Orr
 Spencer, Mrs. I.
 Spencer, William N.
 Sperry, Mrs. Albert T.
 Sperry, Oliver R.
 Spertus, Philip
 Spiegel, Miss Katherine J.
 Spiehler, Adolph F.
 Spielmann, Willson
 Spitz, Lawrence S.
 Spitz, Milton J.
 Spooner, William
 Spreyer, F. L.
 Sprtel, Dr. Simon L.
 Squire, D.
 Staat, Richard A.
 Staffeld, Byron C.
 Stafford, Charles M.
 Stafford, Richard W.
 Stafford, Dr. Wilma C.
 Stagman, Nathan
 Stagman, Dr. Joseph
 Stahl, John
 Stahl, T. R.
 Stair, H. Bowen
 Stanbery, J. N.
 Stang, J. I.
 Stanley, E. V.
 Stannard, F. J.
 Stanton, Mrs. Francis R.
 Stanton, John W.
 Stark, Ralph W.
 Starrett, Miss Carolyn J.
 Starshak, A. L.
 Stauffacher, E. L.
 Stavenhagen, Fred A.
 Stavish, Emanuel G.
 Steadry, Frederick O.

ANNUAL MEMBERS (CONTINUED)

| | | |
|----------------------------|-------------------------|-------------------------|
| Steans, Dr. George L. | Stone, J. McWilliams | Tabin, Mrs. Albert |
| Stearns, Walter | Stone, Marvin N. | Tabin, Seymour |
| Stebler, W. J. | Stonehouse, Elmer H. | Taft, Mrs. John Ailes |
| Steele, Mrs. Walter D. | Stopphet, William G. | Talbot, Mrs. C. Conover |
| Stefany, Henry | Storer, E. W. | Talbot, Dr. Eugene S. |
| Steffen, Charles | Storey, Smith W. | Tallman, Philip |
| Steigmann, Dr. | Storkan, Mrs. James | Tanan, Stanley J. |
| Frederick | Stormont, Dr. D. L. | Tannenbaum, Saul O. |
| Stein, Mrs. Louise K. | Stout, Frederick E. | Tarnopol, Emil |
| Stein, Melvyn E. | Stover, Frank C. | Tarrson, Albert J. |
| Stein, Milton | Strand, Clifford E. R. | Tatge, Paul W. |
| Steiner, Miss Joanne | Strandjord, Dr. Nels M. | Taub, Charles |
| Steinmann, Mrs. F. H. | Strathearn, Donald, Jr. | Taussig, Mrs. J. Thomas |
| Steins, Mrs. Halsey | Stratton, Robert C. | Taylor, Mrs. A. Thomas |
| Steitz, Mrs. Dorothy J. | Straus, Robert E. | Taylor, Fitzhugh |
| Stekly, Harold | Straus, Mrs. Robert E. | Taylor, John R. |
| Stenhous, Miss | Streicher, I. H. | Taylor, John W. |
| Bessie C. | Streitmann, Albert P. | Tecson, Joseph A. |
| Stephan, Edmund A. | Stresen-Reuter, A. P. | Tedrow, James W. |
| Stephens, Mrs. Arthur I. | Stresenreuter, Mrs. | Teichen, E. H. |
| Stephens, Dr. Natalie | Charles H. | Teitel, Charles |
| Stephens, W. R., Jr. | Strojny, Eugene | Teitelbaum, Joseph D. |
| Sterling, James R. | Stryck, Paul W. | Telechansky, Morris S. |
| Stern, John W. | Stuart, Lyman J. | Teller, Sidney A. |
| Stern, Herbert L. | Stuart, William M. | Temple, Jack B. |
| Stern, Herbert L., Jr. | Stubenrauch, E. H. | Temple, John |
| Stern, Lawrence F. | Stucker, Dr. Fred J. | Temps, Leopold |
| Stern, Russell T. | Stuckslager, Walter N. | Teninga, Alfred J. |
| Sternberg, Edward | Study, Dr. Robert S. | Tenney, Henry F. |
| Sternstein, Edward | Stuebner, Edwin A. | Terker, Sam |
| Stetson, William C. | Sturm, Arthur | Terrill, Dean |
| Steuer, Mrs. Joseph True | Sullivan, Eugene T. | Tesher, David |
| Stevens, John Paul | Sullivan, Frank W. | Teter, Park |
| Stevenson, Mrs. Borden | Sullivan, J. E. | Thal, Hugo J. |
| Stevenson, M. Bradley | Sulzberger, Mrs. | Thatcher, Dr. Harold W. |
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| Stewart, George W. | Sundt, E. V. | Thomas, G. Truman |
| Stewart, Lynn | Sunter, William D. | Thomas, Miss Martha |
| St. George, George Q. M. | Sutter, William P. | Thomas, Norman L. |
| Stiggleman, James H. | Suyker, Hector | Thomas, Parker W. |
| Stiglitz, Reuben | Svec, Anton E. | Thompson, A. M. |
| Stikkens, Alex | Svensson, Olof | Thompson, H. Hoyt |
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| Stirling, Miss Dorothy | Swanson, H. G. | Thompson, Dr. W. V. |
| Stitt, Robert B. | Swanson, Harry R. | Thon, Warren H. |
| Stix, Lawrence C., Jr. | Swanson, K. G. | Thorek, Dr. Philip |
| Stoaks, Richard O. | Sweeney, David B. | Thoren, Mrs. J. N. |
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| Stoffels, Edgar O. | Swenson, R. E. | Thullen, Henry M. |
| Stofft, Edmond B. | Swett, Israel | Tice, Winfield |
| Stoker, Nelson D. | Swift, Phelps Hoyt | Tilden, Merrill W. |
| Stokesberry, Paul W. | Swift, T. Philip | Tillotson, J. W. |
| Stolar, Burton I. | Swoiskin, Dr. Irving | Tinsley, Dr. Milton |
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| Stollery, Mrs. Harry | Sywulka, Mrs. Paul | Todd, Mrs. E. L. |
| Stolz, Leon | Szymanski, Dr. | Toggweiler, A. A. |
| Stone, Mrs. E. J. | Frederick J. | Tolpin, Dr. Samuel |
| Stone, Elmer | | Tonk, Percy A. |
| Stone, Dr. F. Lee | Taaffe, C. R. | Toomin, Philip R. |
| Stone, Herbert Stuart | Tabin, Mrs. Adrian | Topolinski, J. J. |

ANNUAL MEMBERS (CONTINUED)

Torgerson, Ray G.
 Towns, R. E.
 Trace, Master David R.
 Trace, Master Edward R.
 Trace, Dr. Herbert D.
 Trace, Master Peter A.
 Tracy, George C.
 Tracy, Dr. Paul C.
 Tracy, T. J.
 Tracy, Wheeler
 Tracy, Wilfred
 Trager, D. C.
 Train, Jack D.
 Trainor, H. J.
 Trainor, Mrs. Minita
 Traut, Bernard H.
 Travelletti, Bruno L.
 Traver, George W.
 Traynor, William
 Treadway, C. L.
 Treadwell, George P.
 Treffeisen, Gustave
 Tremper, Robert
 Trentlage, Richard B.
 Tresley, Dr. Ira J.
 Triggs, Warren
 Trimarco, Ralph R.
 Triner, Joseph
 Troeger, Louis P.
 Trom, Jacob
 Tubutis,
 Walter Stanley, Jr.
 Turk, Miss Dorothy
 Turek, A. O.
 Turgrimson, Charles D.
 Turner, Dr. Herbert A.
 Turner, Oliver S.
 Tyk, Warren G.
 Tyler, Mrs. Ivan L.
 Tyrrell, Miss Frances

 Ughetti, John B.
 Uhlmann, Richard F.
 Ullmann, S. E.
 Ulrich, Norman
 Ultsch, W. Lewis
 Unger, Mrs. Dan
 Urann, E. B.
 Urbach, Mrs. H. H.
 Urban, Andrew
 Uretz, Daniel A.
 Uretz, Sol
 Urnes, Dr. M. P.
 Ushijima, Mrs. Ruth
 Utz, Miss Martha

 Vacha, Dr. Victoria B.
 Vail, Mrs. Daniel M.
 Vail, Donald P.
 Vail, Dr. Derrick T.
 Vail, J. Dean, Jr.

 Van Buskirk, M. G.
 Vanderkloot, Dr. Albert
 Vander Kloot,
 Nicholas J.
 van der Meulen, John H.
 Vander Ploeg, Frank
 Vanderwicken, Mrs.
 Edwin P.
 Van Deventer,
 William E.
 Van Dyk, S. A.
 Van Etten, Floyd G.
 Van Gerpen, George
 Van Gorkom, Mrs. J. W.
 Van Kampen, A. H.
 Van Kirk, Mrs. R. D.
 Van Meer, Robert A.
 Van Moss, J. H., Jr.
 Van Ness, A. L.
 Van Nice, Errett
 Van Stanten, James
 Van Schaick, Mrs.
 Ethel R.
 Van Swearingen, Guy H.
 Varley, John S.
 Vasalle, Master David
 Vasalle, Rudolph A.
 Vaughn, Wilbert T.
 Velvel, Charles
 Velvel, H. R.
 Venerable, Mrs. James T.
 Venrick, Mrs. Charles F.
 Verhaag, Dr. Joseph E.
 Ver Nooy, Miss Winifred
 Vernon, Leroy N.
 Vetter, Paul G.
 Veverka, Dr. Frank J.
 Vick, Maurice B.
 Victorine, Vernon E.
 Vihon, Charles H.
 Vil, Dr. Charles S.
 Vilas, Mrs. Royal C.
 Vilsoet, William
 Vincenti, Anthony P.
 Vleek, Dr. Anton J.
 Vogelback, Mrs.
 William E.
 Voigt, Mrs. Wilbur R.
 Volland, Richard E.
 Volkober, J. A.
 Vollmer, Karl F.
 Von Brauchitsch,
 Frederick C.
 Vondrasek, Earl A.
 Vonesh, Raymond J.
 Von Gehr, George
 Voosen, John C.
 Voris, Dr. Harold C.
 Voytech, Charles F.
 Vratny, Thomas J.
 Vyse, T. A. E.

 Wach, Dr. Edward C.
 Wachtel, Dr. Hans
 Wacker, Frederick G., Jr.
 Wagner, Mrs. David H.
 Wagner, John A.
 Wagoner, William F.
 Waitkus, E. Algerd
 Wajoy, Dr. Rose Mary
 Wakefield, Dr.
 Ernest H.
 Waldie, Benjamin D.
 Waldman, Dr. Albert G.
 Waldner, Arthur L.
 Waldo, C. Ives, Jr.
 Walgren, Lawrence C.
 Walker, Dr. Alfred O.
 Walker, Frank R.
 Walker, Mrs. India A.
 Walker, Dr. Maggie L.
 Walker, Reno R.
 Walker, Ward
 Walker, Wendell
 Walker, Mrs. William
 Ernest
 Wall, Dr. Frank J.
 Wall, Dr. James M.
 Wallenstein, Sidney
 Waller, Percy H.
 Wallerstein, David B.
 Wallgren, Eric M.
 Walling, Mrs.
 Willoughby G.
 Wallingford, Donald H.
 Wallis, Wayne
 Walters, Gary G.
 Waltman, C. E.
 Walz, John W.
 Wang, Dr. S. Y.
 Wanger, David E., Jr.
 Wanzer, H. Stanley
 Warady, Dr. Seymour C.
 Warde, Frederick A.
 Wardwell, H. F.
 Wardwell, H. F.
 Ware, James R.
 Ware, Mrs. Robert R.
 Ware, Mrs. Thomas M.
 Ware, Willis C.
 Warman, Winfield C.
 Warner, Mason
 Warner, Peter B.
 Warshawsky, Roy I.
 Warton, Frank R.
 Warwick, O. H.
 Washburn, Dr.
 Kenneth C.
 Wasick, Dr. Milan M.
 Wasson, Theron
 Waterbury, Donald O.
 Waterfield, John R.
 Waterman, Mrs. Alex H.

ANNUAL MEMBERS (CONTINUED)

| | | |
|--------------------------|--------------------------|------------------------|
| Watkins, Dr. Richard W. | Whall, Arthur L. | Winston, Farwell |
| Watling, John | Wheary, Warren | Winter, Mrs. Gibson |
| Watson, D. R. | Wheaton, David | Winter, Munroe A. |
| Watson, Norman E. | Wheeler, Mrs. Seymour | Winterbotham, John R. |
| Watt, Howard D. | Wheeler, W. L. | Wirth, J. W. |
| Watt, Richard F. | Whipple, Charles J. | Wise, John P. |
| Watts, Amos H. | White, John G. | Wise, Richard H. |
| Watts, G. W. | White, Marshall | Wise, Dr. Sidney S. |
| Waud, Morrison | White, Dr. Michael S. | Wiseman, William P. |
| Weatherby, George W. | White, Mrs. Nelson C. | Wishgrad, Dr. Lester |
| Weathers, Everett A. | White, Dr. Philip C. | Wishnick, Dr. |
| Weaver, Robert P. | White, Philip M. | Seymour D. |
| Webb, Dr. A. C. | Whitlock, John B. | Witherell, James |
| Webb, Dr. J. Lewis | Whiting, Lawrence H. | Witkowski, Dr. Lucjan |
| Weber, James E. | Whitney, Jack M., II | Witte, Lester |
| Weber, Miss Laura M. | Whittaker, Robert B. | Wittmann, Bernard H. |
| Weber, Paul W. | Wible, R. R. | Witty, Dr. Drake R. A. |
| Weber, Warren J. | Wickersham, Mrs. Lucille | Wlocholl, Arthur |
| Webster, Dr. Augusta | Wier, Grant H. | Wojnarowsky, Dr. |
| Webster, N. C. | Wiggins, Kenneth M. | Emilia |
| Weeks, Harrison S. | Wilbrandt, Robert A. | Wolbach, Murray, Jr. |
| Weeks, Kenneth L. | Wilby, A. C. | Wolf, Albert M. |
| Weick, George T. | Wilder, E. P., Jr. | Wolf, Dr. Ernest S. |
| Weidert, William C. | Wiles, Bradford | Wolf, C. W. |
| Weigen, Dr. Anders J. | Wilhelm, Eugene A. | Wolf, Morris E. |
| Weil, Mrs. Carl H. | Wilkes, Mrs. R. M. | Wolf, Orrin E. |
| Weil, David Maxwell | Willard, Nelson W. | Wolfe, Hubert J. |
| Weiner, Aaron B. | Willens, Dr. Samuel D. | Wolfson, Marvin J. |
| Weiner, Charles | Williams, Albert D. | Wood, A. E. |
| Weinress, Morton | Williams, Albert W. | Wood, Alexander M. |
| Weinress, S. J. | Williams, Bennett | Wood, Arthur M. |
| Weinstein, Harold | Williams, Mrs. | Wood, C. A. |
| Weintroub, Benjamin | Ednyfed H. | Wood, Harold F. |
| Weisdorf, Dr. William | Williams, Dr. Jack | Wood, Kenward T. |
| Weiser, Donald K. | Williams, Lynn A. | Wood, Philip J. |
| Weiss, Dr. Edward | Williams, Dr. O. B. | Wood, William A. |
| Weiss, Louis J. | Williams, Ralph E. | Wood, Mrs. William J. |
| Weiss, Norman L. | Williams, R. Arthur | Woodall, Lloyd |
| Weissman, Dr. Irving | Williams, Robert J. | Woods, Dr. A. W. |
| Wells, C. A. | Williams, Thomas L., Jr. | Woodson, William T. |
| Wells, D. P. | Willis, George H. | Woodward, George |
| Wells, Sidney | Willis, Ivan L. | Woodard, Francis C. |
| Welsh, Vernon M. | Willmarth, John H. | Woollett, Mrs. Jean |
| Wendell, F. Lee H. | Willy, Dr. Ralph G. | Woolpy, Max |
| Wendorf, Herman | Wilsey, Dr. H. Lawrence | Workman, S. L. |
| Wendt, Mrs. M. R. | Wilson, Allen | Works, Nelson C., Jr. |
| Wenger, R. L. | Wilson, | Worth, Dr. Theodore |
| Wenninger, William C. | Christopher W., Jr. | Worthington, La Grange |
| Wenzel, Alfred C. | Wilson, David M. | Worthy, James C. |
| Werner, Miss | Wilson, Dr. Earle E. | Wray, Franklin C. |
| Theresa M. | Wilson, E. W. | Wray, Glenn |
| Werrenrath, Reinald, Jr. | Wilson, Harold E. | Wreath, Robert L. |
| Wessel, Dean | Wilson, Robert H. | Wright, C. G. |
| Wessling, Richard | Wilson, Mrs. Roger V. | Wright, Dr. F. Howell |
| West, James D. | Wilson, Miss S. Edna | Wright, George L. |
| West, Richard H. | Windchy, Mrs. | Wright, Miss |
| West, Thomas F., Jr. | Frederick O. | Margaret J. |
| Westbrook, Charles H. | Wing, Wallace E. | Wrightson, William F. |
| Westley, Richard O. | Winkenweder, V. O. | Wulf, Miss Lydia |
| Wetherell, Warren | Winkler, Edward | Wybel, L. E. |
| Weyforth, B. Stuart, Jr. | Winsberg, Herbert H. | |

ANNUAL MEMBERS (CONTINUED)

| | | |
|------------------------|-------------------------|--------------------------|
| Wyne, Walter | Yost, Miss Karyl | Zelinsky, Mrs. S. F. |
| Wynne, Mrs. Lloyd | Young, C. S. | Zeller, Charles B. |
| Yager, Richard Sidney | Young, Dr. Donald R. | Ziegler, Dr. George E. |
| Yarnall, Frank H. | Young, George B. | Zielinski, Dr. Victor J. |
| Yates, P. L. | Young, J. L. | Zimmerman, Austin M. |
| Yavitz, Sidney M. | Young, Rollin R. | Zimmerman, Dr. |
| Yellin, Morris | Young, William T., Jr. | Harold W. |
| Yeoman, George W. | Youngren, W. W. | Zimmerman, Herbert |
| Yesnick, Dr. Louis | Yust, Walter | Zimmerman, Otto H. |
| Ylvsaker, L. | Zatz, Sidney R. | Zimmermann, Frank O. |
| Yntema, Dr. Leonard F. | Zeitlin, Dr. N. S. | Zimmermann, Mrs. P. T. |
| Yohe, C. Lloyd | Zeitlin, Samuel E. | Zitz, Martin |
| Yonkers, Edward H. | Zekman, Dr. Theodore N. | Zitzewitz, Arthur F. |
| | | Zoll, William F. |
| | | Zolton, Dr. Joseph |

DECEASED 1959

| | | |
|--------------------------|--------------------------|------------------------|
| Bard, Roy E. | Harza, Mrs. Leroy F. | Neff, Ward A. |
| Beck, Miss Elsa C. | Jennings, Ralph C. | Rappold, Samuel R. |
| Bremner, Dr. M. D. K. | Kane, Daniel Francis | Sayers, Leon D. |
| Cann, Isadore | Knowlson, J. S. | Sexton, Mrs. Thomas G. |
| Clark, Miss Herma | Latta, Dr. Philip R. | Varty, Leo G. |
| Diggs, Dr. N. Alfred | Mall, Arthur W. | Wenner, A. T. |
| Fasnacht, Rev. Walter L. | McCarty, M. F. | Zimmerman, Carl |
| Ferrara, Salvatore | Melchior, Roy F. | Ziv, Harry M. |
| Fischer, Mrs. Louis E. | Mordock, Mrs. Charles T. | |
| Frankenbush, O. E. | Myers, Miss Etha C. | |
| Fuller, Norman S. | | |

Articles of Incorporation

STATE OF ILLINOIS

DEPARTMENT OF STATE

WILLIAM H. HINRICHSSEN, *Secretary of State*

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETING:

Whereas, a Certificate duly signed and acknowledged having been filed in the office of the Secretary of State, on the 16th day of September, A.D. 1893, for the organization of the COLUMBIAN MUSEUM OF CHICAGO, under and in accordance with the provisions of "An Act Concerning Corporations," approved April 18, 1872, and in force July 1, 1872, and all acts amendatory thereof, a copy of which certificate is hereto attached.

Now, therefore, I, William H. Hinrichsen, Secretary of State of the State of Illinois, by virtue of the powers and duties vested in me by law, do hereby certify that the said COLUMBIAN MUSEUM OF CHICAGO is a legally organized Corporation under the laws of this State.

In Testimony Whereof, I hereto set my hand and cause to be affixed the Great Seal of State. Done at the City of Springfield, this 16th day of September, in the year of our Lord one thousand eight hundred and ninety-three, and of the Independence of the United States the one hundred and eighteenth.

W. H. HINRICHSSEN,
Secretary of State.

[SEAL]

TO HON. WILLIAM H. HINRICHSSEN,

SECRETARY OF STATE:

SIR:

We, the undersigned citizens of the United States, propose to form a corporation under an act of the General Assembly of the State of Illinois, entitled "An Act Concerning Corporations," approved April 18, 1872, and all acts amendatory thereof; and that for the purposes of such organization we hereby state as follows, to-wit:

1. The name of such corporation is the "COLUMBIAN MUSEUM OF CHICAGO."

2. The object for which it is formed is for the accumulation and dissemination of knowledge, and the preservation and exhibition of objects illustrating Art, Archaeology, Science and History.

3. The management of the aforesaid museum shall be vested in a Board of FIFTEEN (15) TRUSTEES, five of whom are to be elected every year.

4. The following named persons are hereby selected as the Trustees for the first year of its corporate existence:

Edward E. Ayer, Charles B. Farwell, George E. Adams, George R. Davis, Charles L. Hutchinson, Daniel H. Burnham, John A. Roche, M. C. Bullock, Emil G. Hirsch, James W. Ellsworth, Allison V. Armour, O. F. Aldis, Edwin Walker, John C. Black and Frank W. Gunsaulus.

5. The location of the Museum is in the City of Chicago, County of Cook, and State of Illinois.

(Signed)

George E. Adams, C. B. Farwell, Sidney C. Eastman, F. W. Putnam, Robert McCurdy, Andrew Peterson, L. J. Gage, Charles L. Hutchinson, Ebenezer

Buckingham, Andrew McNally, Edward E. Ayer, John M. Clark, Herman H. Kohlsaas, George Schneider, Henry H. Getty, William R. Harper, Franklin H. Head, E. G. Keith, J. Irving Pearce, Azel F. Hatch, Henry Wade Rogers, Thomas B. Bryan, L. Z. Leiter, A. C. Bartlett, A. A. Sprague, A. C. McClurg, James W. Scott, Geo. F. Bissell, John R. Walsh, Chas. Fitzsimmons, John A. Roche, E. B. McCagg, Owen F. Aldis, Ferdinand W. Peck, James H. Dole, Joseph Stockton, Edward B. Butler, John McConnell, R. A. Waller, H. C. Chatfield-Taylor, A. Crawford, Wm. Sooy Smith, P. S. Peterson, John C. Black, Jno. J. Mitchell, C. F. Gunther, George R. Davis, Stephen A. Forbes, Robert W. Patterson, Jr., M. C. Bullock, Edwin Walker, George M. Pullman, William E. Curtis, James W. Ellsworth, William E. Hale, Wm. T. Baker, Martin A. Ryerson, Huntington W. Jackson, N. B. Ream, Norman Williams, Melville E. Stone, Bryan Lathrop, Eliphalet W. Blatchford, Philip D. Armour.

STATE OF ILLINOIS }
COOK COUNTY } ss.

I, G. R. MITCHELL, a NOTARY PUBLIC in and for said County, do hereby certify that the foregoing petitioners personally appeared before me and acknowledged severally that they signed the foregoing petition as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this 14th day of September, 1893.

[SEAL] G. R. MITCHELL,
NOTARY PUBLIC, COOK COUNTY, ILL.

CHANGE IN ARTICLE 1

Pursuant to a resolution passed at a meeting of the corporate members held the 25th day of June, 1894, the name of the COLUMBIAN MUSEUM was changed to FIELD COLUMBIAN MUSEUM. A certificate to this effect was filed June 26, 1894, in the office of the Secretary of State for Illinois.

CHANGE IN ARTICLE 1

Pursuant to a resolution passed at a meeting of the corporate members held the 8th day of November, 1905, the name of the FIELD COLUMBIAN MUSEUM was changed to FIELD MUSEUM OF NATURAL HISTORY. A certificate to this effect was filed November 10, 1905, in the office of the Secretary of State for Illinois.

CHANGE IN ARTICLE 3

Pursuant to a resolution passed at a meeting of the corporate members held the 10th day of May, 1920, the management of FIELD MUSEUM OF NATURAL HISTORY shall be invested in a Board of TWENTY-ONE (21) TRUSTEES, who shall be elected in such manner and for such time and term of office as may be provided for by the By-Laws. A certificate to this effect was filed May 21, 1920, in the office of the Secretary of State for Illinois.

CHANGE IN ARTICLE 1

Pursuant to a resolution passed at a meeting of the corporate members held the 15th day of November, 1943, the name of FIELD MUSEUM OF NATURAL HISTORY was changed to CHICAGO NATURAL HISTORY MUSEUM. A certificate to this effect was filed November 23, 1943, in the office of the Secretary of State for Illinois.

Amended By-Laws

DECEMBER 1958

ARTICLE I

MEMBERS

SECTION 1. Members shall be of twelve classes, Corporate Members, Honorary Members, Patrons, Corresponding Members, Benefactors, Contributors, Life Members, Non-Resident Life Members, Associate Members, Non-Resident Associate Members, Sustaining Members, and Annual Members.

SECTION 2. The Corporate Members shall consist of the persons named in the articles of incorporation, and of such other persons as shall be chosen from time to time by the Board of Trustees at any of its meetings, upon the recommendation of the Executive Committee; provided, that such person named in the articles of incorporation shall, within ninety days from the adoption of these By-Laws, and persons hereafter chosen as Corporate Members shall, within ninety days of their election, pay into the treasury the sum of Twenty Dollars (\$20.00) or more. Corporate Members becoming Life Members, Patrons or Honorary Members shall be exempt from dues. Annual meetings of said Corporate Members shall be held at the same place and on the same day that the annual meeting of the Board of Trustees is held.

SECTION 3. Honorary Members shall be chosen by the Board from among persons who have rendered eminent service to science, and only upon unanimous nomination of the Executive Committee. They shall be exempt from all dues.

SECTION 4. Patrons shall be chosen by the Board upon recommendation of the Executive Committee from among persons who have rendered eminent service to the Museum. They shall be exempt from all dues, and, by virtue of their election as Patrons, shall also be Corporate Members.

SECTION 5. Any person contributing or devising the sum of One Hundred Thousand Dollars (\$100,000.00) in cash, or securities, or property to the funds of the Museum, may be elected a Benefactor of the Museum.

SECTION 6. Corresponding Members shall be chosen by the Board from among scientists or patrons of science residing in foreign countries, who render important service to the Museum. They shall be elected by the Board of Trustees at any of its meetings. They shall be exempt from all dues and shall enjoy all courtesies of the Museum.

SECTION 7. Any person contributing to the Museum One Thousand Dollars (\$1,000.00) or more in cash, securities, or material, may be elected a Contributor of the Museum. Contributors shall be exempt from all dues and shall enjoy all courtesies of the Museum.

SECTION 8. Any person paying into the treasury the sum of Five Hundred Dollars (\$500.00) at any one time, shall, upon the unanimous vote of the Board, become a Life Member. Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to members of the Board of Trustees. Any person residing fifty miles or more from the city of Chicago, paying into the treasury the sum of One Hundred Dollars (\$100.00) at any one time, shall, upon the unanimous vote of the Board, become a Non-Resident Life Member. Non-Resident Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to members of the Board of Trustees.

SECTION 9. Any person paying into the treasury of the Museum the sum of One Hundred Dollars (\$100.00) at any one time, shall, upon the vote of the Board,

become an Associate Member. Associate Members shall be exempt from all dues, and shall be entitled to tickets admitting Member and members of family, including non-resident home guests; all publications of the Museum issued during the period of their membership, if so desired; reserved seats for all lectures and entertainments under the auspices of the Museum, provided reservation is requested in advance; and admission of holder of membership and accompanying party to all special exhibits and Museum functions day or evening. Any person residing fifty miles or more from the city of Chicago, paying into the treasury the sum of Fifty Dollars (\$50.00) at any one time, shall, upon the unanimous vote of the Board, become a Non-Resident Associate Member. Non-Resident Associate Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to Associate Members.

SECTION 10. Sustaining Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of Twenty-five Dollars (\$25.00), payable within thirty days after notice of election and within thirty days after each recurring annual date. This Sustaining Membership entitles the Member to free admission for the Member and family to the Museum on any day, the Annual Report and such other Museum documents or publications issued during the period of their membership as may be requested in writing. When a Sustaining Member has paid the annual fee of \$25.00 for six years, such Member shall be entitled to become an Associate Member.

SECTION 11. Annual Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of Ten Dollars (\$10.00), payable within thirty days after each recurring annual date. An Annual Membership shall entitle the Member to a card of admission for the Member and family during all hours when the Museum is open to the public, and free admission for the Member and family to all Museum lectures and entertainments. This membership will also entitle the holder to the courtesies of the membership privileges of every museum of note in the United States and Canada, so long as the existing system of co-operative interchange of membership tickets shall be maintained, including tickets for any lectures given under the auspices of any of the museums during a visit to the cities in which the co-operative museums are located.

SECTION 12. All membership fees, excepting Sustaining and Annual, shall hereafter be applied to a permanent Membership Endowment Fund, the interest only of which shall be applied for the use of the Museum as the Board of Trustees may order.

ARTICLE II

BOARD OF TRUSTEES

SECTION 1. The Board of Trustees shall consist of twenty-one members. The respective members of the Board now in office, and those who shall hereafter be elected, shall hold office during life. Vacancies occurring in the Board shall be filled at a regular meeting of the Board, upon the nomination of the Executive Committee made at a preceding regular meeting of the Board, by a majority vote of the members of the Board present.

SECTION 2. Regular meetings of the Board shall be held on the third Monday of the month. Special meetings may be called at any time by the President, and shall be called by the Secretary upon the written request of three Trustees. Five Trustees shall constitute a quorum, except for the election of officers or the adoption of the Annual Budget, when seven Trustees shall be required, but meetings may be adjourned by any less number from day to day, or to a day fixed, previous to the next regular meeting.

SECTION 3. Reasonable written notice, designating the time and place of holding meetings, shall be given by the Secretary.

ARTICLE III

HONORARY TRUSTEES

SECTION 1. As a mark of respect, and in appreciation of services performed for the Institution, any Trustee who by reason of inability, on account of change

of residence, or for other cause or from indisposition to serve longer in such capacity shall resign his place upon the Board, may be elected, by a majority of those present at any regular meeting of the Board, an Honorary Trustee for life. Such Honorary Trustee will receive notice of all meetings of the Board of Trustees, whether regular or special, and will be expected to be present at all such meetings and participate in the deliberations thereof, but an Honorary Trustee shall not have the right to vote.

ARTICLE IV

OFFICERS

SECTION 1. The officers shall be a President, a First Vice-President, a Second Vice-President, a Third Vice-President, a Secretary, an Assistant Secretary and a Treasurer. They shall be chosen by ballot by the Board of Trustees, a majority of those present and voting being necessary to elect. The President, the First Vice-President, the Second Vice-President, and the Third Vice-President shall be chosen from among the members of the Board of Trustees. The meeting for the election of officers shall be held on the third Monday of January of each year, and shall be called the Annual Meeting.

SECTION 2. The officers shall hold office for one year, or until their successors are elected and qualified, but any officer may be removed at any regular meeting of the Board of Trustees by a vote of two-thirds of all the members of the Board. Vacancies in any office may be filled by the Board at any meeting.

SECTION 3. The officers shall perform such duties as ordinarily appertain to their respective offices, and such as shall be prescribed by the By-Laws, or designated from time to time by the Board of Trustees.

ARTICLE V

THE TREASURER

SECTION 1. The Treasurer shall be custodian of the funds of the Corporation, except as hereinafter provided. He shall make disbursements only upon warrants, signed by such officer, or officers, or other persons as the Board of Trustees may from time to time designate.

SECTION 2. The securities and muniments of title belonging to the Corporation shall be placed in the custody of some Trust Company of Chicago to be designated by the Board of Trustees, which Trust Company shall collect the income and principal of said securities as the same become due, and pay same to the Treasurer, except as hereinafter provided. Said Trust Company shall allow access to and deliver any or all securities or muniments of title to the joint order of the following officers, namely: the President or one of the Vice-Presidents, jointly with the Chairman, or one of the Vice-Chairmen, of the Finance Committee of the Museum. The President or any one of the Vice-Presidents, jointly with either the Chairman or any one of the other members of the Finance Committee, are authorized and empowered (a) to sell, assign and transfer as a whole or in part the securities owned by or registered in the name of the Chicago Natural History Museum, and, for that purpose, to endorse certificates in blank or to a named person, appoint one or more attorneys, and execute such other instruments as may be necessary, and (b) to cause any securities belonging to this Corporation now, or acquired in the future, to be held or registered in the name or names of a nominee or nominees designated by them.

SECTION 3. The Treasurer shall give bond in such amount, and with such sureties as shall be approved by the Board of Trustees.

SECTION 4. The Harris Trust and Savings Bank shall be custodian of "The N. W. Harris Public School Extension of the Chicago Natural History Museum" fund. The bank shall make disbursements only upon warrants signed by such officer or officers or other persons as the Board of Trustees of the Museum may from time to time designate.

ARTICLE VI

THE DIRECTOR

SECTION 1. The Board of Trustees shall elect a Director of the Museum, who shall remain in office until his successor shall be elected. He shall have immediate charge and supervision of the Museum, and shall control the operations of the Institution, subject to the authority of the Board of Trustees and its Committees. The Director shall be the official medium of communication between the Board, or its Committees, and the scientific staff and maintenance force.

SECTION 2. There shall be four scientific Departments of the Museum—Anthropology, Botany, Geology, and Zoology—each under the charge of a Chief Curator, subject to the authority of the Director. The Chief Curators shall be appointed by the Board upon the recommendation of the Director, and shall serve during the pleasure of the Board. Subordinate staff officers in the scientific Departments shall be appointed and removed by the Director upon the recommendation of the Chief Curators of the respective Departments. The Director shall have authority to employ and remove all other employees of the Museum.

SECTION 3. The Director shall make report to the Board at each regular meeting, recounting the operations of the Museum for the previous month. At the Annual Meeting, the Director shall make an Annual Report, reviewing the work for the previous year, which Annual Report shall be published in pamphlet form for the information of the Trustees and Members, and for free distribution in such number as the Board may direct.

ARTICLE VII

THE AUDITOR

SECTION 1. The Board shall appoint an Auditor, who shall hold his office during the pleasure of the Board. He shall keep proper books of account, setting forth the financial condition and transactions of the Corporation, and of the Museum, and report thereon at each regular meeting, and at such other times as may be required by the Board. He shall certify to the correctness of all bills rendered for the expenditure of the money of the Corporation.

ARTICLE VIII

COMMITTEES

SECTION 1. There shall be five Committees, as follows: Finance, Building, Auditing, Pension, and Executive.

SECTION 2. The Finance Committee shall consist of not less than five or more than seven members, the Auditing and Pension Committees shall each consist of three members, and the Building Committee shall consist of five members. All members of these four Committees shall be elected by ballot by the Board at the Annual Meeting, and shall hold office for one year, and until their successors are elected and qualified. In electing the members of these Committees, the Board shall designate the Chairman and Vice-Chairman by the order in which the members are named in the respective Committee; the first member named shall be Chairman, the second named the Vice-Chairman, and the third named, Second Vice-Chairman, succession to the Chairmanship being in this order in the event of the absence or disability of the Chairman.

SECTION 3. The Executive Committee shall consist of the President of the Board, the Chairman of the Finance Committee, the Chairman of the Building Committee, the Chairman of the Auditing Committee, the Chairman of the Pension Committee, and three other members of the Board to be elected by ballot at the Annual Meeting.

SECTION 4. Four members shall constitute a quorum of the Executive Committee, and in all standing Committees two members shall constitute a quorum. In the event that, owing to the absence or inability of members, a quorum of the regularly elected members cannot be present at any meeting of any Committee, then the Chairman thereof, or his successor, as herein provided, may summon any members of the Board of Trustees to act in place of the absentee.

SECTION 5. The Finance Committee shall have supervision of investing the endowment and other funds of the Corporation, and the care of such real estate as may become its property. It shall have authority to make and alter investments from time to time, reporting its actions to the Board of Trustees. The Finance Committee is fully authorized to cause any funds or investments of the Corporation to be made payable to bearer, and it is further authorized to cause real estate of the Corporation, its funds and investments, to be held or registered in the name of a nominee selected by it.

SECTION 6. The Building Committee shall have supervision of the construction, reconstruction, and extension of any and all buildings used for Museum purposes.

SECTION 7. The Executive Committee shall be called together from time to time as the Chairman may consider necessary, or as he may be requested to do by three members of the Committee, to act upon such matters affecting the administration of the Museum as cannot await consideration at the Regular Monthly Meetings of the Board of Trustees. It shall, before the beginning of each fiscal year, prepare and submit to the Board an itemized Budget, setting forth the probable receipts from all sources for the ensuing year, and make recommendations as to the expenditures which should be made for routine maintenance and fixed charges. Upon the adoption of the Budget by the Board, the expenditures stated are authorized.

SECTION 8. The Auditing Committee shall have supervision over all accounting and bookkeeping, and full control of the financial records. It shall cause the same, once each year, or oftener, to be examined by an expert individual or firm, and shall transmit the report of such expert individual or firm to the Board at the next ensuing regular meeting after such examination shall have taken place.

SECTION 9. The Pension Committee shall determine by such means and processes as shall be established by the Board of Trustees to whom and in what amount the Pension Fund shall be distributed. These determinations or findings shall be subject to the approval of the Board of Trustees.

SECTION 10. The Chairman of each Committee shall report the acts and proceedings thereof at the next ensuing regular meeting of the Board.

SECTION 11. The President shall be ex-officio a member of all Committees and Chairman of the Executive Committee. Vacancies occurring in any Committee may be filled by ballot at any regular meeting of the Board.

ARTICLE IX

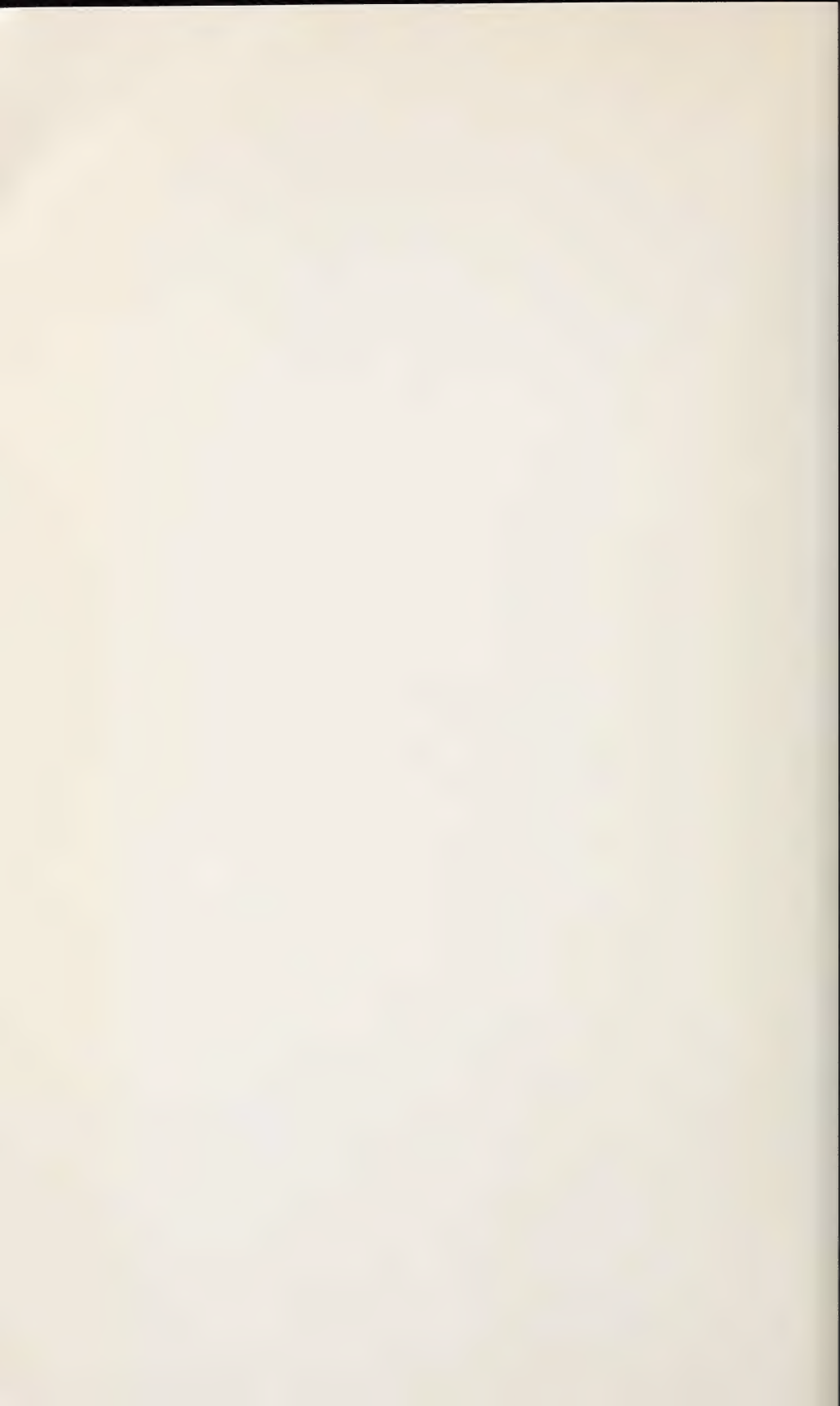
NOMINATING COMMITTEE

SECTION 1. At the November meeting of the Board each year, a Nominating Committee of three shall be chosen by lot. Said Committee shall make nominations for membership of the Finance Committee, the Building Committee, the Auditing Committee, and the Pension Committee, and for three members of the Executive Committee, from among the Trustees, to be submitted at the ensuing December meeting and voted upon at the following Annual Meeting in January.

ARTICLE X

SECTION 1. Whenever the word "Museum" is employed in the By-Laws of the Corporation, it shall be taken to mean the building in which the Museum as an Institution is located and operated, the material exhibited, the material in study collections, or in storage, furniture, fixtures, cases, tools, records, books, and all appurtenances of the Institution and the workings, researches, installations, expenditures, field work, laboratories, library, publications, lecture courses, and all scientific and maintenance activities.

SECTION 2. The By-Laws, and likewise the Articles of Incorporation, may be amended at any regular meeting of the Board of Trustees by a vote in favor thereof of not less than two-thirds of all the members present, provided the amendment shall have been proposed at a preceding regular meeting.



CHICAGO
NATURAL
HISTORY
MUSEUM

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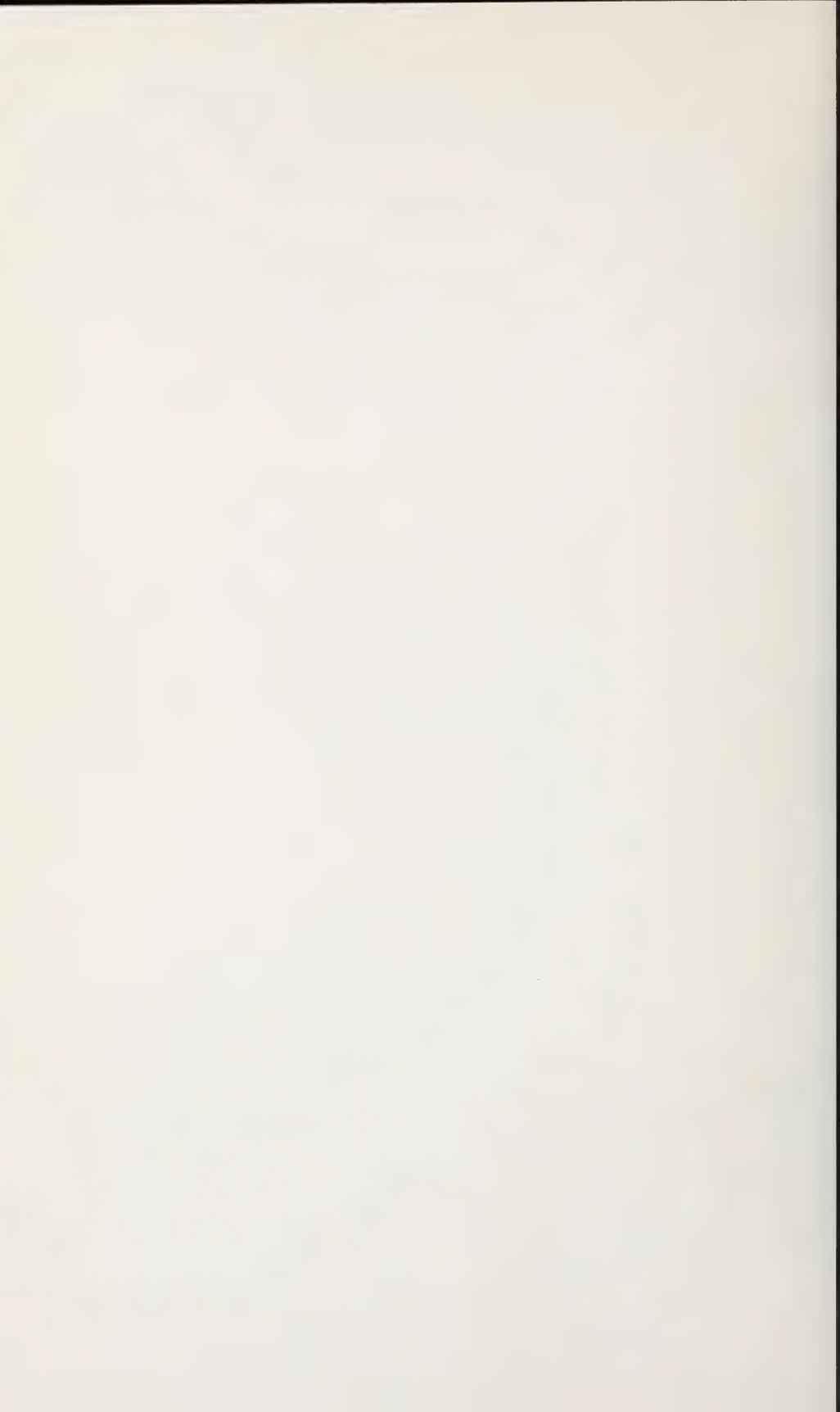
ANNUAL REPORT

1960



Chicago Natural History Museum





SOUTH ENTRANCE

CHICAGO NATURAL HISTORY MUSEUM
(FORMERLY FIELD MUSEUM)
ROOSEVELT ROAD AND LAKE SHORE DRIVE

ON NEXT PAGE



Report of the Director

to the

Board of Trustees

for the year 1960



CHICAGO NATURAL HISTORY MUSEUM

1961

PRINTED IN THE UNITED STATES OF AMERICA
BY CHICAGO NATURAL HISTORY MUSEUM PRESS

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In Memoriam

SEWELL L. AVERY
1874—1960

TRUSTEE OF THE MUSEUM
SINCE 1932 AND
MEMBER OF THE PENSION COMMITTEE
SINCE 1933

LIFE MEMBER OF THE MUSEUM FROM 1923
CORPORATE MEMBER
MUSEUM CONTRIBUTOR

GENEROUS SPONSOR
OF MUSEUM EXPEDITIONS
IN NORTH AND SOUTH AMERICA



In Memoriam

CHESSER M. CAMPBELL
1897—1960

TRUSTEE OF THE MUSEUM SINCE 1959
CORPORATE MEMBER OF THE MUSEUM

IN HIS BRIEF TERM OF SERVICE
HE SHOWED OUTSTANDING INTEREST IN
THE WORK OF THE MUSEUM



Fabian Bachrach

Former Members *of the*

Board of Trustees

| | |
|--|-------------------------------------|
| GEORGE E. ADAMS,* 1893-1917 | EMIL G. HIRSCH,* 1893-1894 |
| OWEN F. ALDIS,* 1893-1898 | CHARLES L. HUTCHINSON,* 1893-1894 |
| ALLISON V. ARMOUR,* 1893-1894 | HUNTINGTON W. JACKSON,* 1894-1900 |
| SEWELL L. AVERY,* 1932-1960 | ARTHUR B. JONES,* 1894-1927 |
| EDWARD E. AYER,* 1893-1927 | CHAUNCEY KEEP,* 1915-1929 |
| JOHN C. BLACK,* 1893-1894 | WILLIAM V. KEELEY,* 1929-1932 |
| WATSON F. BLAIR,* 1894-1928 | GEORGE MANIERRE,* 1894-1924 |
| LEOPOLD E. BLOCK,* 1936-1952 | CHARLES H. MARKHAM,* 1924-1930 |
| JOHN BORDEN, 1920-1938 | CYRUS H. MCCORMICK,* 1894-1936 |
| M. C. BULLOCK,* 1893-1894 | CHARLES A. MCCULLOCH,* 1936-1945 |
| DANIEL H. BURNHAM,* 1893-1894 | JOHN BARTON PAYNE,* 1910-1911 |
| HARRY E. BYRAM,* 1921-1928 | GEORGE F. PORTER,* 1907-1916 |
| CHESSER M. CAMPBELL,* 1959-1960 | FREDERICK H. RAWSON,* 1927-1935 |
| WILLIAM J. CHALMERS,* 1894-1938 | NORMAN B. REAM,* 1894-1910 |
| BOARDMAN CONOVER,* 1940-1950 | GEORGE A. RICHARDSON,* 1930-1957 |
| RICHARD T. CRANE, JR.,* 1908-1912 1921-1931 | JOHN A. ROCHE,* 1893-1894 |
| D.C. DAVIES,* 1922-1928 | THEODORE ROOSEVELT, JR.,* 1938-1944 |
| GEORGE R. DAVIS,* 1893-1899 | MARTIN A. RYERSON,* 1893-1932 |
| ALBERT B. DICK, JR.,* 1936-1954 | FRED W. SARGENT,* 1929-1939 |
| JAMES W. ELLSWORTH,* 1893-1894 | STEPHEN C. SIMMS,* 1928-1937 |
| CHARLES B. FARWELL,* 1893-1894 | JAMES SIMPSON,* 1920-1939 |
| HOWARD W. FENTON,* 1941-1951 | FREDERICK J. V. SKIFF,* 1902-1921 |
| HENRY FIELD,* 1916-1917 | ALBERT A. SPRAGUE,* 1910-1946 |
| MARSHALL FIELD, JR.,* 1899-1905 | SILAS H. STRAWN,* 1924-1946 |
| MARSHALL FIELD III,* 1914-1956 | EDWIN WALKER,* 1893-1910 |
| ERNEST R. GRAHAM,* 1921-1936 | ALBERT H. WETTEN,* 1939-1953 |
| FRANK W. GUNSAULUS,* 1893-1894 1918-1921 | LESLIE WHEELER,* 1934-1937 |
| ALBERT W. HARRIS,* 1920-1941 | NORMAN WILLIAMS,* 1894-1899 |
| HARLOW N. HIGINBOTHAM,* 1894-1919 | JOHN P. WILSON,* 1932-1959 |
| | WILLIAM WRIGLEY, JR.,* 1919-1931 |

* deceased

Former Officers

| | | |
|---------------------------|----------------------------------|-----------|
| PRESIDENTS | EDWARD E. AYER* | 1894-1898 |
| | HARLOW N. HIGINBOTHAM* | 1898-1908 |
| FIRST VICE-PRESIDENTS | MARTIN A. RYERSON* | 1894-1932 |
| | ALBERT A. SPRAGUE* | 1933-1946 |
| | MARSHALL FIELD III* | 1946-1956 |
| SECOND VICE-PRESIDENTS | NORMAN B. REAM* | 1894-1902 |
| | MARSHALL FIELD, JR.* | 1902-1905 |
| | STANLEY FIELD | 1906-1908 |
| | WATSON F. BLAIR* | 1909-1928 |
| | ALBERT A. SPRAGUE* | 1929-1932 |
| | JAMES SIMPSON* | 1933-1939 |
| | SILAS H. STRAWN* | 1940-1946 |
| | ALBERT B. DICK, JR.* | 1946-1951 |
| | HENRY P. ISHAM | 1952-1953 |
| | SAMUEL INSULL, JR. | 1954 |
| | HUGHSTON M. MCBAIN | 1955-1956 |
| THIRD VICE-PRESIDENTS | ALBERT A. SPRAGUE* | 1921-1928 |
| | JAMES SIMPSON* | 1929-1932 |
| | ALBERT W. HARRIS* | 1933-1941 |
| | ALBERT B. DICK, JR.* | 1942-1946 |
| | SAMUEL INSULL, JR. | 1946-1953 |
| SECRETARIES | RALPH METCALF | 1894 |
| | GEORGE MANIERRE* | 1894-1907 |
| | FREDERICK J. V. SKIFF* | 1907-1921 |
| | D. C. DAVIES* | 1921-1928 |
| | STEPHEN C. SIMMS* | 1928-1937 |
| TREASURERS | BYRON L. SMITH* | 1894-1914 |
| DIRECTORS | FREDERICK J. N. SKIFF* | 1893-1921 |
| | D. C. DAVIES* | 1921-1928 |
| | STEPHEN C. SIMMS* | 1928-1937 |

* deceased

BOARD OF TRUSTEES 1960

OFFICERS

STANLEY FIELD, *President*
 HUGHSTON M. MCBAIN, *First Vice-President*
 WALTHER BUCHEN, *Second Vice-President*
 JOSEPH N. FIELD, *Third Vice-President*
 SOLOMON A. SMITH, *Treasurer*
 CLIFFORD C. GREGG, *Secretary*
 E. LELAND WEBBER, *Assistant Secretary*

BOARD OF TRUSTEES

| | |
|----------------------|---------------------|
| LESTER ARMOUR | HENRY P. ISHAM |
| SEWELL L. AVERY* | WILLIAM V. KAHLER |
| WM. MCCORMICK BLAIR | HUGHSTON M. MCBAIN |
| WALTHER BUCHEN | J. ROSCOE MILLER |
| CHESSER M. CAMPBELL* | WILLIAM H. MITCHELL |
| WALTER J. CUMMINGS | JOHN T. PIRIE, JR. |
| JOSEPH N. FIELD | CLARENCE B. RANDALL |
| MARSHALL FIELD, JR. | JOHN G. SEARLE |
| STANLEY FIELD | SOLOMON A. SMITH |
| SAMUEL INSULL, JR. | LOUIS WARE |
| J. HOWARD WOOD | |

COMMITTEES

Executive—Stanley Field, Solomon A. Smith, Joseph N. Field, John G. Searle, Hughston M. McBain, Wm. McCormick Blair, Henry P. Isham, Marshall Field, Jr.

Finance—Solomon A. Smith, Hughston M. McBain, Walter J. Cummings, Walther Buchen, Henry P. Isham, Wm. McCormick Blair, John G. Searle

Building—Joseph N. Field, William H. Mitchell, Lester Armour, Louis Ware

Auditing—John G. Searle, Clarence B. Randall, Marshall Field, Jr., Louis Ware

Pension—Hughston M. McBain, William V. Kahler, John G. Searle, John T. Pirie, Jr., Samuel Insull, Jr.

* deceased

LIST OF STAFF 1960

CLIFFORD C. GREGG, Sc.D., LL.D., Director
E. LELAND WEBBER, B.B.Ad., C.P.A., Assistant Director

DEPARTMENT OF ANTHROPOLOGY

PAUL S. MARTIN, Ph.D., Chief Curator
DONALD COLLIER, Ph.D., Curator, South American Archaeology and Ethnology
GEORGE I. QUIMBY, A.M., Curator, North American Archaeology and Ethnology
JOHN B. RINALDO, Ph.D., Assistant Curator, Archaeology
KENNETH STARR, Ph.D., Curator, Asiatic Archaeology and Ethnology
ROLAND W. FORCE, Ph.D., Curator, Oceanic Archaeology and Ethnology
PHILLIP H. LEWIS, M.A., Associate Curator, Primitive Art
HOSHIE TCHEN, Ph.D., Consultant, East Asian Collection
ALLEN S. LISS, A.B., Custodian of Collections
ALFRED LEE ROWELL, Dioramist
GUSTAF DALSTROM, Artist
WALTER BOYER, B.F.A., Ceramic Restorer
WALTER C. REESE, Preparator
VIRGINIA B. STROSS, A.B., Departmental Secretary*
AGNES M. FENNELL, B.A., Departmental Secretary

ROBERT J. BRAIDWOOD, Ph.D., Research Associate, Old World Prehistory
FAY-COOPER COLE, Ph.D., Sc.D., LL.D., Research Associate, Malaysian Ethnology
A. L. KROEBER, Ph.D., Research Associate, American Archaeology†
J. ERIC THOMPSON, Dipl.Anth.Camb., Research Associate, Central American Archaeology
EVETT D. HESTER, M.S., Field Associate

DEPARTMENT OF BOTANY

JOHN R. MILLAR, Chief Curator
THEODOR JUST, Ph.D., Chief Curator†
B. E. DAHLGREN, D.M.D., Curator Emeritus
J. FRANCIS MACBRIDE, Curator, Peruvian Botany
JOHN W. THIERET, Ph.D., Curator, Economic Botany
C. EARLE SMITH, JR., Ph.D., Associate Curator, Vascular Plants
LOUIS O. WILLIAMS, Ph.D., Associate Curator, Central American Botany
J. S. DASTON, Sc.D., Assistant, Botany†
PATRICIO PONCE DE LEON, Ph.D., Assistant, Botany
ROBERT J. REICH, Custodian, Herbarium*
EMIL SELLA, Curator of Exhibits

* resigned

† deceased

DEPARTMENT OF BOTANY (CONTINUED)

SAMUEL H. GROVE, JR., Artist-Preparator
FRANK BORYCA, Technician
WALTER HUEBNER, Preparator
DEAN RANDALL, Artist*
ROBERT ANDERSON, Artist
EDITH M. VINCENT, A.B., Research Librarian
DOROTHY GIBSON, Departmental Secretary

E. P. KILLIP, A.B., Research Associate, Phanerogamic Botany
ROGERS MCVAUGH, Ph.D., Research Associate, Vascular Plants
DONALD RICHARDS, Research Associate, Cryptogamic Botany
EARL E. SHERFF, Ph.D., Research Associate, Systematic Botany
HANFORD TIFFANY, Ph.D., Research Associate, Cryptogamic Botany
MARGERY C. CARLSON, Ph.D., Associate, Botany
ARCHIE F. WILSON, Associate, Wood Anatomy†

DEPARTMENT OF GEOLOGY

SHARAT K. ROY, Ph.D., Chief Curator
ALBERT W. FORSLEV, M.S., Associate Curator, Mineralogy*
EDWARD J. OLSEN, Ph.D., Associate Curator, Mineralogy
BERTRAM G. WOODLAND, B.Sc., Associate Curator, Petrology
HARRY E. CHANGNON, B.S., Curator of Exhibits
HENRY HORBACK, Assistant
HENRY U. TAYLOR, Preparator
RAINER ZANGERL, Ph.D., Curator, Fossil Reptiles
ROBERT H. DENISON, Ph.D., Curator, Fossil Fishes
WILLIAM D. TURNBULL, Assistant Curator, Fossil Mammals
DAVID TECHTER, B.S., Assistant, Fossil Vertebrates
EUGENE S. RICHARDSON, JR., Ph.D., Curator, Fossil Invertebrates
GEORGE LANGFORD, Ph.B., Curator, Fossil Plants
ORVILLE L. GILPIN, Chief Preparator, Fossils
RONALD J. LAMBERT, Preparator, Fossils
MAIDI WIEBE, Artist
EVELYN SHAHROCH, Departmental Secretary

ERNST ANTEVS, Ph.D., Research Associate, Glacial Geology
ALBERT A. DAHLBERG, D.D.S., Research Associate, Fossil Vertebrates
ERIK N. KJELLESVIG-WAERING, B.Sc., Research Associate, Fossil Invertebrates
EVERETT C. OLSON, Ph.D., Research Associate, Fossil Vertebrates
BRYAN PATTERSON, Research Associate, Fossil Vertebrates
R. H. WHITFIELD, D.D.S., Associate, Fossil Plants
VIOLET WHITFIELD, B.A., Associate, Fossil Plants

* resigned

† deceased

DEPARTMENT OF ZOOLOGY

AUSTIN L. RAND, Ph.D., Chief Curator
PHILIP HERSHKOVITZ, M.S., Curator, Mammals
KARL KOOPMAN, Ph.D., Assistant Curator, Mammals
EMMET R. BLAKE, M.S., Curator, Birds
MELVIN A. TRAYLOR, JR., A.B., Associate Curator, Birds
M. DIANNE MAURER, Assistant, Birds
ROBERT F. INGER, Ph.D., Curator, Amphibians and Reptiles
HYMEN MARX, B.S., Assistant Curator, Reptiles
JANET WRIGHT, Assistant, Reptiles
LOREN P. WOODS, A.B., Curator, Fishes
PEARL SONODA, Assistant, Fishes
RUPERT L. WENZEL, B.A., Curator, Insects
HENRY S. DYBAS, B.S., Associate Curator, Insects
AUGUST ZIEMER, Assistant, Insects
FRITZ HAAS, Ph.D., Curator Emeritus, Lower Invertebrates
ALAN SOLEM, Ph.D., Curator, Lower Invertebrates
ERNEST J. ROSCOE, M.S., Assistant, Lower Invertebrates
D. DWIGHT DAVIS, Curator, Vertebrate Anatomy
PHYLLIS WADE, B.S., Assistant*
JOAN DAVIS, B.A., Assistant
SOPHIE ANDRIS, Osteologist
CARL W. COTTON, Taxidermist
DOMINICK VILLA, Tanner
MARIO VILLA, Assistant Taxidermist
PETER ANDERSON, Assistant Taxidermist
JOSEPH B. KRSTOLICH, Artist
RUTH ANDRIS, Departmental Secretary

GREGORIO BONDAR, Research Associate, Insects†
RUDYERD BOULTON, B.S., Research Associate, Birds
ALFRED E. EMERSON, Ph.D., Research Associate, Insects
HARRY HOOGSTRAAL, M.S., Research Associate, Insects
CH'ENG-CHAO LIU, Ph.D., Research Associate, Reptiles
ORLANDO PARK, Ph.D., Research Associate, Insects
CLIFFORD H. POPE, B.S., Research Associate, Amphibians and Reptiles
CHARLES H. SEEVERS, Ph.D., Research Associate, Insects
R. M. STRONG, Ph.D., Research Associate, Anatomy
ROBERT TRAUB, Ph.D., Research Associate, Insects
ALEX K. WYATT, Research Associate, Insects
LUIS DE LA TORRE, M.S., Associate, Mammals
MARION GREY, Associate, Fishes
WALDEMAR MEISTER, M.D., Associate, Anatomy
EDWARD M. NELSON, Ph.D., Associate, Fishes
HARRY G. NELSON, B.Sc., Associate, Insects
KARL PLATH, Associate, Birds

* resigned

† deceased

DEPARTMENT OF ZOOLOGY (CONTINUED)

DIOSCORO S. RABOR, M.S., Associate, Birds
LILLIAN A. ROSS, Ph.B., Associate, Insects
ELLEN T. SMITH, Associate, Birds
ROBERT L. FLEMING, Ph.D., Field Associate
GEORG HAAS, Ph.D., Field Associate
FREDERICK J. MEDEM, Sc.D., Field Associate

DEPARTMENT OF THE N. W. HARRIS PUBLIC SCHOOL EXTENSION

RICHARD A. MARTIN, B.S., Curator
ALMON COOLEY, Assistant Preparator¶
MARVIN RABE, Assistant Preparator*

BERTHA M. PARKER, M.S., Research Associate

JAMES NELSON AND ANNA LOUISE RAYMOND FOUNDATION FOR PUBLIC SCHOOL AND CHILDREN'S LECTURES

| | |
|--------------------------|----------------------------------|
| MIRIAM WOOD, M.A., Chief | DOLLA COX, A.B.* |
| MARIE SVOBODA, M.A. | ELLEN MILLER* |
| HARRIET SMITH, M.A. | MARYL ANDRE, B.S. |
| EDITH FLEMING, M.A. | ELDA B. HERBERT, M.A., Secretary |

THE LIBRARY OF THE MUSEUM

Administration

META P. HOWELL, B.L.S., Librarian
M. EILEEN ROCOURT, M.A., Associate Librarian
MARIAN CHRISTENSEN, A.A., Secretary*
ESTHER P. KERSTER, Secretary

Classification and Cataloguing

W. PEYTON FAWCETT, B.A.
BERTHA W. GIBBS, A.B., B.S.inL.S.
BORIS IVANOV, Dipl.Law¶
CHIH-WEI PAN, M.S.

Reference

EUGENIA BERNOFF

Accessions, Binding, Stacks

GEORGE STOSIUS, M.E.
CONSTANTIN GLOBALA, Dipl.Eng.

¶ retired

* resigned

ASSOCIATE EDITORS OF MUSEUM PUBLICATIONS

LILLIAN A. ROSS, Ph.B., Scientific Publications

MARTHA H. MULLEN, B.A., Assistant*

HELEN ATKINSON MACMINN, A.M., Miscellaneous Publications

PUBLIC RELATIONS COUNSEL

H. B. HARTE†

PAULA R. NELSON

MARILYN JINDRICH, B.S., Associate

DIVISION OF MEMBERSHIPS

GLORIA PAGANO, in charge

MARY H. RYAN, Assistant

ADMINISTRATION AND RECORDS

SUSANMARY CARPENTER, B.A., Secretary to the Director

MARION G. GORDON, B.S., Registrar

RAYMOND A. N. GOMES, Assistant Recorder

HILDA NORDLAND, Assistant Recorder

JEANNETTE FORSTER, Assistant Recorder

JESSIE DUDLEY, Receptionist

ACCOUNTING

MARION K. HOFFMANN, Auditor

ELEANOR SHEFFNER, Bookkeeper

ROBERT E. BRUCE, Purchasing Agent

THE BOOK SHOP

JANE COMISKEY, B.A., Manager

MARION A. KRATKY, B.A., Secretary

DIVISION OF ILLUSTRATION

E. JOHN PFIFFNER, Staff Artist

MARION PAHL, B.F.A., Staff Illustrator

* resigned

† deceased

DIVISION OF PHOTOGRAPHY

JOHN BAYALIS, Photographer
HOMER V. HOLDREN, Assistant
KURT BOGEN, Assistant

CLARENCE B. MITCHELL, B.A., Research Associate, Photography

DIVISION OF MOTION PICTURES

JOHN MOYER, in charge

DIVISION OF PRINTING

RAYMOND H. HALLSTEIN, SR., in charge
HAROLD M. GRUTZMACHER, Assistant

DIVISION OF MAINTENANCE

JAMES R. SHOUBA, Superintendent
GUSTAV A. NOREN, Assistant Superintendent

DIVISION OF ENGINEERING

WILLIAM E. LAKE, Chief Engineer
LEONARD CARRION, Assistant Chief Engineer

THE GUARD

FRANK C. JENSIK, Captain*
HARRY R. SMITH, Captain

*resigned

Annual Report of the Director

CHICAGO
NATURAL
HISTORY
MUSEUM

Annual Report

of the Director

To the Trustees:

I have the honor to present a report of the operations of the Museum for the year ending December 31, 1960.

Attendance continued to increase and the popularity of our summer evening-hours was confirmed. Following the trial period in 1959, the 8 o'clock closing hour was continued this year on the evenings when public concerts were held in Grant Park and, in addition, was extended to Saturdays and Sundays so that the pleasant evenings in Grant Park might be more enjoyable for visitors. On one such evening (Sunday, August 7), 1,356 persons entered the Museum building after six o'clock.

The Museum has long been recognized throughout the world as an institution of notable scientific research, and many important and unique collections of materials have come here because of its eminence in the scientific world. Further indications of our prestige are the grants from Foundations for Scientific Research, the numbers of persons from distant places who come here to study, and the ever-increasing demand for the publications of the Museum and of its staff members.

During the year members of the Museum's scientific staff were engaged in nine research problems with aid from the National Science Foundation. These included "Archaeology of the Upper Little Colorado," Dr. Paul S. Martin; "Archaeological Study of Urbanization in Prehistoric Peru," Dr. Donald Collier; "Chondrules in Stony Meteorites," Dr. Sharat K. Roy; "Mammalogy of Surinam" and

SMITHSONIAN
INSTITUTION AUG 3 1961

"Check List of Recent Mammals of South America," Philip Hershkovitz; "Systematics and Zoogeography of the Freshwater Fishes of North Borneo" and "Systematics and Zoogeography of the Amphibians and Reptiles of Borneo," Dr. Robert F. Inger; "Check List of Birds of Angola," Melvin A. Traylor, Jr.; and "Paleoecology of Pennsylvanian Black Shale," Dr. Rainer Zangerl and Dr. Eugene S. Richardson, Jr. It is worthy to note that "Head Musculature of American Boas," the research project of Mrs. Frances W. Gibson, a graduate student of the University of Arkansas, was given Museum sponsorship at the request of the National Science Foundation.

In addition, three grants have been awarded that are to be undertaken after the close of this year. They are Dr. John W. Thieret's "Floristic Study of the Yellowknife Highway Region," Dr. Paul S. Martin's "Cultural Stability in the Upper Little Colorado River Drainage," and Dr. Alan Solem's four-year study of "Systematics and Zoogeography of Pacific Ocean Endodontid Land Snails."

The study on "Changes in Plants Used at Tularosa Cave, New Mexico," by Dr. Hugh C. Cutler, now of Missouri Botanical Garden, was supported by the Wenner-Gren Foundation for Anthropological Research and awaits only Dr. Cutler's final report to bring it to completion. Dr. Jack Fooden, a postdoctoral student of the University of Chicago working at the Museum, is revising, under grants from the National Institute of Health and the National Science Foundation, the systematics of the woolly monkeys. Chin Phui Kong, fisheries officer with the government of North Borneo, spent about six months at the Museum under a National Science Foundation grant to study freshwater fishes of North Borneo.

Dr. Kenneth Starr's field trip to Formosa was greatly aided by a grant from the American Council of Learned Societies and the Social Science Research Council. A grant from Field Enterprises Educational Corporation supported the Museum's Field Associate Dr. Robert L. Fleming in his participation in the World Book Encyclopedia Scientific Expedition to the Himalayas led by Sir Edmund Hillary (see page 39). A travel grant from the National Science Foundation enabled Dr. Collier to attend anthropological meetings in Europe and to study American collections in museums of Europe and Great Britain.

The Museum granted Thomas J. Dee Fellowships for research at the Museum (see page 114) to Miss Mona R. J. Edwards of the British Museum (Natural History) for her study of exhibition methods and techniques, to the Reverend H. B. Herrington of Westbrook, Ontario, Canada, for his study of freshwater clams, and to Dr. J. A. Roze of Caracas, Venezuela, for his research in herpetology.

TRUSTEES AND OFFICERS

Stanley Field, President of the Museum since 1909, was re-elected at the annual meeting of the Board of Trustees to serve for his fifty-second year. Other officers re-elected were: Vice-Presidents Hughston M. McBain, Walther Buchen, and Joseph N. Field, Treasurer Solomon A. Smith, and Secretary Clifford C. Gregg. E. Leland Webber was elected Assistant Secretary. At the December meeting of the Board of Trustees, J. Howard Wood, who is president of the Tribune Company and publisher of the *Chicago Tribune*, was elected a member of the Board and a Corporate Member of the Museum.

Members of the Board of Trustees noted with deep regret the passing of two of their members during the year. Sewell L. Avery died on October 31 and Chessier M. Campbell died on July 10. Mr. Campbell, the newest member of the Board, was elected to that office on January 19, 1959. Mr. Avery, who had been a member of the Board since 1932, had contributed funds for several Museum expeditions. Appreciation for services of each of these Trustees was appropriately recorded in the minutes of the Board of Trustees (photographs are on pages 9 and 11).

During the year the Museum's most outstanding investment asset, the Pittsfield Building, was sold by direction of the Board of Trustees on recommendation of the Finance Committee. This splendid 38-story office building came into the possession of the Museum in 1944 as a gift of the late Marshall Field III, Trustee and Benefactor of the Museum. The earnings of this property made up a substantial portion of the support of the Museum. However, after long consideration, it was decided that it would not be best to keep so large a percentage of the Museum's investment holdings in a single unit and, while this investment had returned a very satisfactory income, the trend, due to constantly increasing taxes and operating costs, would be steadily downward.

To implement the study of the renowned A. W. F. Fuller Collection of ethnological and archaeological materials from the Pacific acquired by the Museum in 1958 the Board of Trustees at its September meeting established the A. W. F. Fuller Foundation (this fund will also provide for maintenance and increase of the collection to which Captain Fuller devoted major attention throughout his career). Subsequently the A. W. F. Fuller Library was established in order to support the studies by making available the most pertinent literature. The nucleus of the Fuller Library was formed by purchases and gifts and by transfer of some volumes from the General Library of the Museum.



CHILDREN ON
SOUND TREK TOUR
POSE WITH
THE GRIZZLY BEARS
IN HALL 16

RICHARD T. CRANE, JR., HALL

ATTENDANCE

Attendance in 1960 showed a gain of approximately 169,000, bringing the total for the year to 1,244,374. The increase occurred in a fairly uniform pattern not only as to time of year but also as to all classifications of visitors. The attendance during August was the greatest recorded in any month since August 1941. We are particularly pleased that many school teachers came to the Museum this year.

MEMBERS' NIGHT

Members' Night, which this year was held on Friday evening, April 29, brought a record crowd of 1,767 visitors to the Museum. "Congo Safari," an illustrated lecture by Dr. Robert F. Inger, Curator of Amphibians and Reptiles, which was given twice to standing-room-only crowds, and a preview of "Peoples of the World," a special exhibit of photographs by Nickolas Muray on loan from the Wenner-Gren Foundation for Anthropological Research, were main attractions. Soundtrek, the Museum's newly installed radio-guide system, was available for tours of certain exhibition halls. New and reinstalled exhibits were featured on the ground, first, and second floors, and on the third and fourth floors special exhibits prepared by members of the Museum staff were shown in the laboratories, workrooms, offices, and General Library.

SOUNDTREK

Work continued on improvement of Soundtrek, the Museum's radio-guide system. During 1960 ten additional halls were equipped, bringing the total installation to sixteen halls. Because of the flexibility of the multichannel system, ten of the sixteen halls offer both a long and a short tour, so that twenty-six different tours are available to visitors at all times. Another demonstration of the flexibility of the system occurred in July during the Lions International convention when special tours in Spanish and French were offered for the visitors from other countries in addition to the English programs. Technical success of the system led to its installation in the Milwaukee Public Museum and to contracts for installation in the American Museum of Natural History, Brooklyn Museum, and Dayton Museum of Natural History. By the end of the year much improved electronic equipment had been developed and plans were being made for a complete reinstallation early in 1961.

STAFF OF THE MUSEUM

Early in the year Dr. Theodor Just, Chief Curator of the Department of Botany, was taken with an illness that resulted in his death a few months later. This was a particularly heavy blow to the Museum not only because of Dr. Just's scientific standing but also because of his genial disposition that had endeared him to all of his co-workers. Horace B. Harte, head of the Division of Public Relations, died suddenly in January at his home. He had been with the Museum since 1927 and had capably handled his Division since that time. He was prime mover in founding *Field Museum News* that later became *Chicago Natural History Museum Bulletin*. Joshua S. Daston, Assistant in the Department of Botany, who had worked out unusual techniques for the restoration of type photographs, died in April.

Dr. Alfred L. Kroeber, Research Associate in American Archaeology and anthropologist on the staff of the University of California, died early in October. He was elected Research Associate by the Board of Trustees in 1925 and had been closely in touch with the work of the Museum ever since that time. Archie F. Wilson, Associate in Wood Anatomy, who was a deeply interested volunteer, died late in August. Word was received recently of the death in February, 1959, in São Paulo, Brazil, of Professor Gregorio Bondar, Research Associate in the Division of Insects since 1942.

I record with regret also the deaths during the year of Sidney S. Durling, Clarence E. Chambers, and Sam Colovos, of the guard force, and the following loyal workers whose services had been completed in former years: Miss Elizabeth B. Stone, formerly Secretary in the Department of Zoology, who retired in 1943; George Woodward, who retired as Captain of the Guard in 1953; Mathias Dones, carpenter-preparator in the Department of Botany, who retired in 1953; and Mrs. Rose Hercog, charwoman, who retired in 1960.

The untimely death of Dr. Just forced the Board of Trustees to make a major redeployment of personnel. John R. Millar, Deputy Director, was appointed Chief Curator of Botany. Mr. Millar, who has been with the Museum since 1918, rendered distinguished service as a member of the Department of Botany, as Curator of the Department of the N. W. Harris Public School Extension of the Museum, and as Deputy Director. His knowledge and skill in the field of exhibition are invaluable at this time because of the impending exhibition program in the Department of Botany. E. Leland Webber, Executive Assistant, was appointed Assistant Director. He came to the Museum in 1950 and has rendered distinguished service in its business management.

Dr. Louis O. Williams joined the staff this year as Associate Curator of Central American Botany, a field in which he had extensive experience with the United Fruit Company before entering government service in the Department of Agriculture. Dr. Albert W. Forslev, Associate Curator of Mineralogy, resigned to accept a teaching position at the College of William and Mary, and Dr. Edward J. Olsen, of Western Reserve University, was appointed Associate Curator of Mineralogy. Phillip H. Lewis, Assistant Curator of Primitive Art, was promoted to Associate Curator, and Hymen Marx, Assistant in the Division of Reptiles, was promoted to Assistant Curator. W. Peyton Fawcett, of the Library staff, returned to his position at the Museum after two years in military service.

Evet D. Hester, who recently had resigned from the staff, was appointed Field Associate in Anthropology, and Dr. Patricio Ponce de León, formerly of the University of Havana, was appointed Assistant in the Department of Botany. Mrs. Paula R. Nelson was appointed Public Relations Counsel and Managing Editor of the Museum *Bulletin* (she has had long experience in public relations and editorial work at the University of Chicago). Other appointments during the year were: Robert Anderson, Artist, Botany; Kurt Bogen, Assistant, Photography; Miss Joan Davis, Assistant, Division of Vertebrate Anatomy; Mrs. Bertha W. Gibbs, Cataloguer, Library; Mrs. Esther P. Kerster, Secretary, Library; Miss M. Dianne Maurer, Assistant, Birds; and Miss Janet Wright, Assistant, Reptiles.

Miss Marilyn Jindrich, Assistant in the Division of Public Relations, was promoted to Associate. Mrs. Elda B. Herbert of the Book Shop was transferred to the staff of Raymond Foundation as Secretary, and Mrs. Jessie Dudley of the Book Shop became Receptionist at the time of the resignation of Miss Celeste Luwen. Colonel Harry R. Smith, United States Army, Retired, came to the Museum as Captain of the Guard after the resignation of Captain Frank C. Jensik.

Mrs. Virginia B. Stross resigned as Secretary in the Department of Anthropology and Mrs. Agnes McNary Fennell returned to the Museum to fill the vacancy (Mrs. Fennell, as Miss Agnes McNary, had served as Secretary for seventeen years and left the Museum in 1957 at the time of her marriage). Other resignations during the year were: Miss Marian Christensen, Secretary, Library; Mrs. Ellen Miller, Raymond Foundation; Miss Martha H. Mullen, Assistant, Scientific Publications; Marvin Rabe, Assistant Preparator, Harris Extension; Dean Randall, Artist, Botany; Robert J. Reich, Custodian, Herbarium; Miss Phyllis Wade, Assistant, Division of Vertebrate Anatomy; and Miss Dolla Cox, Raymond Foundation. Almon Cooley, Assistant Preparator, Harris Extension, retired.



BENJAMIN CASCARD
JOHN DYKSTRA
CHRIS PRIESMEYER
AND
WILLIAM FOUST

WITH THE NEW TRUCKS
THAT DELIVER EXHIBITS OF
THE N. W. HARRIS
PUBLIC SCHOOL EXTENSION
TO CHICAGO SCHOOLS

THE N. W. HARRIS PUBLIC SCHOOL EXTENSION

The year saw no changes in procedure in carrying out the lending program for which this department of the Museum functions. As in the past, two of the more-than-1,000 portable exhibits prepared over the years in the workshop of Harris Extension were delivered routinely every tenth schoolday to schools in Chicago and to public-service institutions accredited for our circulation list. Each school and institution received 34 different exhibits within the year. The departmental trucks transporting the exhibits were in operation 170 days and traveled a combined total of 11,623 miles.

Ten schools were dropped from the circulation list during the year, while five others and a Near North Side settlement house were added. At the end of the year 501 schools and institutions were receiving the portable exhibits, four less than at the beginning of the year.

Damage to the portable exhibits out on loan was light in comparison with other years. Sixteen had to be withdrawn for repair, but all except two, in which there was injury to the installations, could be repaired promptly and returned to the school circuit. There would undoubtedly have been more damage through vandalism in schools but for the discontinuance of service at the request of principals of certain elementary schools where behavior problems make it impossible for the principals to assume responsibility for the exhibits.

Maintenance repairs were made in the workshop—mainly during July and August—on 347 of the portable cases. In 32 of these, repair work was necessary on the exhibit material.

Five new exhibits were completed early in the year and put into circulation. Progress in preparation of new exhibits and in renovation of old ones has been hampered by the retirement of Assistant Preparator Almon Cooley at the end of April. The resignation of Assistant Preparator Marvin Rabe in August to attend college has left the department without a preparator.

In August two new trucks were purchased and equipped with the partitions and rubber bumpers necessary for safe transportation of the Harris Extension exhibits. Terminal mileages on the retired trucks after eleven years of use were 60,913 on the truck that had serviced the North Side and 63,847 on the truck for the South Side.

Fifty-eight requests for the loan of specific materials were received and filled during the year. In granting these requests, more than 600 items, such as eggs, seed samples, skulls, skins, fossils, and herbarium sheets, were selected and lent to individuals, and 31 portable exhibits were delivered by truck as special loans.

VOLUNTEER WORKERS

The Museum thanks its volunteer workers for their help during the year. Some of them, designated as Research Associates and Associates, are included in the List of Staff at the beginning of this Report. Other volunteers are: Burton Adlerblum, Miss Barbara Bruckner, Stanley Dvorak, Harold Hinds, Ralph Holmes, Miss Carol J. Murphy, Mrs. Lottie Roscoe, Miss Margaret Shurrager, and Mrs. Barbara Solem. Our volunteers assisted in various phases of the Museum's scientific work.

SPECIAL EXHIBITS

"Peoples of the World," a striking and effective special exhibit, opened on Members' Night, April 29 (see page 27), and remained on exhibition for two months. We were fortunate to be the first museum to exhibit this selection of two hundred photographs taken by the noted New York photographer Nickolas Muray, who had been commissioned by the Wenner-Gren Foundation for Anthropological Research to create on film an ethnological study of certain areas of the Pacific, Asia, and Africa.

"Eleven Centuries of Icelandic Culture," a group of fifty large photographs assembled by Cyrus T. Brady, Jr., to show various aspects of Iceland's history and cultural development, was presented during July and August. "Sea Peoples of the Sulu Archipelago," a collection of oil sketches by Lucie Palmer, artist and geographer, was shown in October and November. Mrs. Palmer, who lived among the Sulus of the southwest Philippines, vividly has portrayed their life in her paintings.

For many years the Museum has co-operated with the School of the Art Institute of Chicago in an annual exhibit in May of work done in our halls by students from the School (see page 89). This year the exhibit gained considerable diversity when ceramics, etchings, metal and enamel work, and design were added to the usual paintings and drawings. For the first time several instructors from the School also exhibited their work at the Museum.

Two other annual exhibits added interest to the Museum program. The exhibit of nature photography from many parts of the world was held in February under the auspices of the Nature Camera Club of Chicago and the Museum, and the exhibit of amateur hand-crafted gems and jewelry, sponsored by the Chicago Lapidary Club, was displayed from June 6 to July 6.

JAMES NELSON AND ANNA LOUISE RAYMOND
FOUNDATION FOR PUBLIC SCHOOL AND
CHILDREN'S LECTURES

Activities of Raymond Foundation during the year continued the established plan of serving organized groups and individuals (mainly children) according to their educational needs.

The ever-increasing work with children resulted in discontinuance of lecture tours for adults except during the summer months and on Saturday afternoons in March, April, October, and November. The tremendous effectiveness of Soundtrek portable radio-receiving sets now enables individuals to go unattended through the halls listening to recorded lectures on the exhibits. Many of the recorded Soundtrek lectures were prepared by members of the staff of Raymond Foundation. Other lectures were prepared by members of the Museum's scientific staff.

Television programs for children were presented by Mrs. Maryl Andre on Channel 9 (WGN-TV) in the spring, and six summer and two fall programs were also presented by members of Raymond Foundation staff on Lee Phillips's "Friendship Show" on Channel 2 (WBBM-TV). Two series of Museum Stories for children were published and distributed to children who attended the spring and fall motion-picture programs on Saturday mornings: "The Chao Family of China" by Edith Fleming (spring) and "Holiday in Ancient Egypt" by Harriet Smith (fall).

The Journey program for individual boys and girls continued with greatly increased participation. The year showed a total of 1,698 Journeys completed (in comparison with 945 in 1959). Twelve of the 136 boys and girls who received awards during the year in the program became members of the Museum Discoverers' Club.

An unusual tour was requested by the Chicago Council of Girl Scouts for their troop leaders in order to acquaint them with the museums of Chicago and the many exhibits and programs that are of great help to Girl Scouts. This tour was called "Know Your Museums," and registration in the group was limited to thirty-five Girl Scout leaders (picture on page 35).

Summaries of activities of Raymond Foundation for the year, with attendance figures, are presented on the following pages. The first summary is a condensed report of attendance for all tours, school programs, motion-picture programs, and Journey series. The second summary is a list of programs selected from the total list (these programs fitted the needs of groups and individuals so well that enthusiasm and attendance were very high).

RAYMOND FOUNDATION
ATTENDANCE TOTALS FOR 1960

1. WORK WITH CHILDREN

| <i>A. School groups</i> | Groups | Individuals | Groups | Individuals |
|---------------------------------|--------|-------------|--------|-------------|
| Chicago public. | 588 | 23,652 | | |
| Chicago parochial. | 27 | 1,076 | | |
| Chicago private. | 41 | 1,046 | | |
| Total Chicago groups. | 656 | 25,774 | | |
| Suburban public. | 1,129 | 39,111 | | |
| Suburban parochial. | 51 | 1,596 | | |
| Suburban private. | 12 | 292 | | |
| Total suburban groups. | 1,192 | 40,999 | | |
| Out-of-state groups. | 114 | 4,369 | | |
| Total. | | | 1,962 | 71,142 |
| <i>B. Other groups</i> | | | | |
| Special (clubs, etc.) | | | 87 | 7,550 |
| <i>C. Individuals or groups</i> | | | | |
| Journeys. | | 1,698 | | |
| Children's movies. | 30 | 17,352 | | |
| Total. | | | 30 | 19,050 |
| TOTAL WORK WITH CHILDREN. | | | 2,079 | 97,742 |

2. WORK WITH ADULTS

| | | | | |
|---|-----|-------|-------|---------|
| Colleges. | 16 | 382 | | |
| Public tours. | 167 | 2,091 | | |
| Miscellaneous groups. | 10 | 165 | | |
| Museum-film showings. | 49 | 4,069 | | |
| TOTAL WORK WITH ADULTS. | | | 242 | 6,707 |
| GRAND TOTAL FOR RAYMOND FOUNDATION WORK. | | | 2,321 | 104,449 |

TWO GIRL SCOUT LEADERS
AFTER TAKING
THE SPECIAL TOUR
"KNOW YOUR MUSEUMS"



RAYMOND FOUNDATION
SELECTED PROGRAMS WITH HIGH ATTENDANCE IN 1960

1. STUDY-UNIT PROGRAMS

| | |
|---|--------------------------------------|
| Ancient Egypt (<i>spring and fall</i>) | 37 programs with 3,121 in attendance |
| Knowing and Appreciating Birds (<i>spring</i>) | 27 programs with 2,395 in attendance |
| Miracle of Plants (<i>spring</i>) | 20 programs with 1,351 in attendance |

2. SPECIAL GEOLOGY TOUR (*for March only*)

| | |
|--------------------|--------------------------------------|
| Rocks from the Sky | 35 programs with 1,444 in attendance |
|--------------------|--------------------------------------|

3. INTERMEDIATE GIRL SCOUT NATURE-BADGE PROGRAMS

| | |
|----------------------------------|-------------------------------------|
| <i>February on Saturdays (3)</i> | 3 programs with 1,086 in attendance |
|----------------------------------|-------------------------------------|

4. PROGRAMS FOR INDIVIDUALS OR FOR GROUPS

A. HONOR DAYS FOR ORGANIZATIONS

| | |
|--------------------|---------------------|
| Cub Scout Day | 1,309 in attendance |
| Camp Fire Girl Day | 521 in attendance |
| Girl Scout Day | 1,048 in attendance |

B. JOURNEYS

| | |
|---|-----|
| No. 20—Animals of the Ice Age <i>winter of 1959-60 (January, February)</i> | 217 |
| No. 21—China <i>spring</i> | 644 |
| No. 22—Whales <i>summer</i> | 305 |
| No. 23—Ancient Egyptians <i>fall</i> | 430 |
| No. 24—Toys <i>winter of 1960-61 (December only)</i> | 102 |

Awards presented in 1960 in these Journeys:

| | |
|--|----|
| Travelers (completed 4 different Journeys) | 68 |
| Adventurers (completed 8 different Journeys) | 36 |
| Explorers (completed 12 different Journeys) | 12 |
| Final Special Journey | 8 |
| Museum Discoverers | 12 |

MUSEUM DISCOVERER
CAROL JANNUSCH
RECEIVES HER CLUB CARD
FROM
E. LELAND WEBBER
ASSISTANT DIRECTOR OF
THE MUSEUM



LECTURE PROGRAMS FOR ADULTS

The Saturday afternoon lecture series for adults were continued during March, April, October, and November, these being the 113th and 114th series presented through the generous foresight of the late Edward E. Ayer, a President of the Museum, who established the lecture foundation. About 17,000 persons attended the eighteen lectures, which were presented without charge to the public. It has been our plan to present interesting and informative motion pictures covering remote parts of the earth as well as many places in our own country. The response, both verbal and written, of our audiences has been most encouraging and assists in the selection of future programs. I am happy to report that many of our lecturers tell us that ours is a "good" audience. Such favorable audience-reponse enables us to obtain speakers who in certain instances might not otherwise be available for our programs. Subjects of the films and lectures for the series in 1960 included New England, France, Norway, London, Pakistan, Holland, California, New Zealand, and Texas.

MEMBERSHIPS

The increase in the number of Museum Members, which was especially marked in 1959, continued throughout 1960. Total membership at the end of the year was 7,274, making a net gain of 719. Although this net gain is slightly less than that of the previous year, it is significant that there was a disproportionate number of transfers from Annual to Associate memberships. (Names of Contributors elected by the Board of Trustees in 1960 are given on page 40, and complete membership lists begin on page 129.)

It is appropriate to record the thanks of the Museum to its Members who have contributed so significantly in its development. The Associate and Life Membership Funds, which are built up through membership fees, now amount to more than \$885,000, while our Annual and Sustaining Members contributed in 1960 more than \$35,000 to the operating funds of the Museum. Total cash receipts of the Division of Memberships in 1960 was 17.3 per cent more than the total in 1959.

The Museum notes with regret the death during the year of two men whose loyal service has meant much to the Museum over a period of many years: Arthur S. Vernay of Nassau, Bahamas, an Honorary Member and Patron of the Museum, and Clay Judson of Chicago, a Patron of the Museum.

GIFTS TO THE MUSEUM

Stanley Field, President of the Museum, gave an additional \$56,306.51 for endowment, and Mrs. Stanley Field, a Benefactor of the Museum, added \$2,000 to the Sara Carroll Field Fund. Dr. Maurice L. Richardson added \$1,000 to the Maurice L. Richardson Paleontological Fund; Miss Margaret B. Conover added \$865.25 to the Conover Game-bird Fund; and C. Suydam Cutting, an Honorary Member of the Museum, added \$750 to the C. Suydam Cutting Fund. The Johnson Foundation gave an additional \$4,000 to the S. C. Johnson Fund for our continuing study of waxy palms.

Additions to other Special Funds were in the following amounts: \$583.81 from the estate of the late Mrs. Abby K. Babcock for the Frederick Reynolds and Abby Kettelle Babcock Fund; \$2,001.55 from the Mrs. Joan A. Chalmers Real Estate Trust for the Joan A. Chalmers Bequest Fund; and \$1,285 from the estate of the late Miss Shirley Farr for the Shirley Farr Bequest Fund.

The Commander Frank V. Gregg Memorial Fund received \$200 from Dr. Clifford C. Gregg and \$100 from Louis Ware, and the Karl P. Schmidt Fund received \$25 from Commander John F. Kurfess, U.S.N., and \$10 from the Karl P. Schmidt Organization Committee. The A. W. F. Fuller Foundation (see page 25) received gifts from President Field, Director Gregg, Dr. Roland W. Force, and Hughston M. McBain (for use of Special Funds see page 114).

Mrs. William S. Street gave \$5,875 for an expedition to Iran and Field Enterprises Educational Corporation gave \$3,000 to provide Museum participation in the World Book Encyclopedia Scientific Expedition to the Himalayas. Dr. Jeanne S. Schwengel gave \$3,462.88 to purchase the de Boe shell collection (see page 73), Mr. and Mrs. Roy E. Sturtevant gave \$1,000 for use by the Department of Geology, and Mr. and Mrs. Hermon Dunlap Smith gave \$200 for use by the Division of Birds. William H. Mitchell made an unrestricted gift of \$500.

Other gifts came from: Edwin C. Austin, George Bates, Mr. and Mrs. M. B. Beach, Carl Behr, Wm. McCormick Blair, Mrs. J. B. Burge, Jr., Kent Chandler, Peder A. Christensen, Alfred Cowles, Mr. and Mrs. Elliott Donnelley, Mr. and Mrs. Gaylord Donnelley, Murray N. Fairbank, Mrs. Marshall Field, Jr., Mrs. H. H. Hall, Flexible Steel Lacing Company, Mrs. Jesse R. Gerstley, Mr. and Mrs. Maxwell Hahn, Richard W. McLaren, Miss Pan Minke, Mrs. Langdon Pearse, Philip S. Rinaldo, Jr., Melvin N. and Mary F. Rothchild Fund, Andrew Sage, Mr. and Mrs. Reuben M. Schutz, Mrs. Richard Zickman, and Waukegan Hyde Park School (4th grade).

Contributors elected by the Board of Trustees are: Alfred Cowles, Dr. Roland W. Force, Clarence L. Frederick, Mrs. Helen Frederick, Walter S. Ross (posthumously), Mrs. Mary Brown Sturtevant, Roy E. Sturtevant, Mrs. Laura Wielgus, and Raymond Wielgus (for roster of Contributors see page 130). Gifts of materials received during the year are listed at the end of this Report (see page 117) and under the heading "Accessions" in the reports of the scientific departments (see pages 51, 56, 64, and 73).

EXPEDITIONS AND FIELD TRIPS IN 1960

The Museum conducted eight expeditions and field trips in 1960. Their work is described in this Report under the headings of the scientific departments (see page references below).

Expeditions and field trips and their leaders are:

DEPARTMENT OF ANTHROPOLOGY—*Formosa Anthropological Field Trip* (Dr. Kenneth Starr, Curator of Asiatic Archaeology and Ethnology, see page 50); *Great Lakes Area Archaeological Field Trips* (George I. Quimby, Curator of North American Archaeology and Ethnology, see page 48); *Southwest Archaeological Expedition* (Dr. Paul S. Martin, Chief Curator of Anthropology, see page 43)

DEPARTMENT OF GEOLOGY—*Big Horn Mountains (Wyoming) Paleontological Field Trip* (Dr. Robert H. Denison, Curator of Fossil Fishes, see page 61)

DEPARTMENT OF ZOOLOGY—*Arizona Zoological Field Trip* (Dr. Fritz Haas, Curator Emeritus of Lower Invertebrates, see page 69); *Great Lakes Zoological Field Work* (Loren P. Woods, Curator of Fishes, see page 69); *Guiana Zoological Expedition, 1960-61* (Harry A. Beatty, see page 69); *West United States Zoological Field Trip* (Dr. Alan Solem, Curator of Lower Invertebrates, see page 69)

DEPARTMENT OF ANTHROPOLOGY

DEPARTMENT OF BOTANY

DEPARTMENT OF GEOLOGY

DEPARTMENT OF ZOOLOGY



CARVED
TEMPLE IDOL

COOK ISLANDS
POLYNESIA

FULLER
COLLECTION

Department of Anthropology

Research and Expeditions

The Southwest Archaeological Expedition completed another year of research near Vernon, Arizona (see page 40). A grant from the National Science Foundation (for investigation of the archaeology of the Upper Little Colorado River Drainage) made it possible to undertake special excavations, paleoecological studies, and archaeological reconnaissance, thus extending the scope of work, and the Museum is grateful for this assistance. A description of the various aspects of the summer's work follows.

The leader of the expedition was Dr. Paul S. Martin, Chief Curator of Anthropology, who was aided by Dr. John B. Rinaldo, Assistant Curator of Archaeology, and by William Alschuler, Miss Ellen Chase, David Herod, Gardner Lane, William A. Longacre, Mrs. Martha Perry, Pat Romane, James Schoenwetter, Roland Strassburger, and John Wells. John W. Saul III (Antioch College student) joined the expedition in midsummer and helped to close camp at the end of the season.

Three major projects were planned for the year: (1) archaeological excavations, (2) a paleoecological inquiry by means of pollen analysis, and (3) continuation of the archaeological survey in the Upper Little Colorado River Drainage. Seven sites, or areas of prehistoric occupation, were excavated. Reports on five of the excavations are given here.

1. The earliest excavated site, dated at about A.D. 300 by means of carbon 14 at the laboratories of the University of Groningen (The Netherlands), consisted of a small group of pit-dwellings located on a high mesa-top overlooking the Little Colorado River in a remote region far from roads. Crude double walls made of lava boulders span each end of the long, narrow, steep-sided mesa, forming "refuge areas" (or "keeps") behind which the Indians might have retreated to defend themselves from attack. The houses were crude shallow structures ringed about with boulders that had been tossed out when the floors were leveled off. These people lived by farming (analysis of sediments from the floor showed corn pollen) and augmented their diet by hunting and gathering. Curiously, they did not make pottery as did their contemporary neighbors fifty miles to the south, an anomaly that is not yet explained. These pit-houses, dating from a local prepottery era, are rare if not unique for this immediate area.

2. Several deep pit-houses that probably date at about A.D. 900 were excavated near St. Johns, Arizona. The abundance of fragments of painted pottery from this site are of peculiar interest because the designs may yield a clue to the antecedents of one of the most important later pottery types in the area—Snowflake Black-on-White.

3. Ten pit-houses with masonry walls were dug. These structures, which probably date at about A.D. 1000, are grouped close to each other but do not touch and may represent (1) a transition in architecture from subterranean pit-houses to dwellings completely above ground with walls entirely of masonry and floors at surface level and (2) a transition in village layout from the early period (pit-houses scattered at random over an acre or so) through a middle period (an amorphous cluster of closely grouped but not contiguous rooms [the Thode Site]) to a late era (neat rows of rectangular rooms sharing partition walls).

4. By A.D. 1100 ± 50 a way of life was developing that was to flower just before the coming of the Spaniards in 1540 and that still persists today among western pueblos. The early aspects of this development were shown by data secured from excavating dwelling rooms that were built at the beginning of this era (A.D. 1100). The site, called Rim Valley, is situated on the Hooper Ranch, Springer-ville, Arizona, on the edge of the canyon of the Little Colorado River. The Rim Valley structures are symmetrical in plan and the interiors of these structures are remarkably uniform in their architectural arrangements.

5. The largest and most impressive building dug during the summer was a Great Kiva that is part of the Hooper Ranch Pueblo (see Annual Report 1959, page 41). The Great Kiva is a large rectangular ceremonial room (45 feet wide, 50 feet long, and 7 feet deep) that was probably for religious and ceremonial use of the whole community, including possibly some satellite hamlets. Entrance to this subterranean structure was by a ramp that widened into a vestibule. The interior had a bench on all sides and two vaults flanking a central area in which was a fire pit. In line with one of the vaults and in the floor was a crypt containing a rare, if not unique, sacred image of sandstone, carved and painted to represent what may have been a cult deity. With the figure were a miniature water-jar and beads of colors that possibly were symbolic of the cardinal directions. The contents of the crypt and of some of the associated rooms may provide, in their rather specialized form and decoration, a link with a specific historic group that more unspecific elements (manos, axes, projectile points) could not furnish.

Twelve whole pottery vessels were recovered. These were in addition to approximately 8,000 sherds, 600 stone and bone tools, 2 skeletons, and wood and charcoal to be used for carbon-14 dating.

The archaeological survey that was begun in the 1959 season was continued as part of the expedition in 1960. During the two seasons William A. Longacre, field assistant in charge of the survey program, covered more than 5,000 miles by truck and made an intensive reconnaissance on foot of approximately fifty square miles. One hundred seventy new sites were discovered in the area, and surface collections of sherds and artifacts were made from each one. The location of each site was fixed on a topographic map and its extent, location, general setting, and condition were noted on cards for a complete working record.

Investigations indicate that the area of one thousand square miles in east-central Arizona covered by the survey was occupied at least by 2000 B.C. The earliest people depended upon hunting and gathering wild plants for a livelihood. Sometime before A.D. 300 corn-agriculture was introduced to the area and larger more permanent settlements became the rule. About A.D. 500 knowledge of making pottery and of building pit-houses penetrated the region, and in approximately A.D. 1000 a marked increase in both the size and number of settlements indicates an increase in population in the region. The dominant Mogollon nature of the material culture at this period suggests an influx of people from the south.

Throughout the entire region, choice of a place for settlement seems to have been closely related to the availability of water. Generally, the earliest sites tend to be located in higher areas (for example, on the sides of mesas) and the latest sites down in the stream valleys. The preference of early peoples for higher locations is not clearly understood, although there is some indication that defense was a factor. Later dependence upon agriculture would probably explain the settlement of people in the fertile and well-watered valleys of the region.

With aid from the National Science Foundation, a program of pollen analysis was initiated (pollen analysis is a method of determining past climates and vegetation by identifying the pollen that is successively deposited over past thousands and millions of years and, luckily, preserved in beds of lakes, in marshes, in soils, and, of course, in archaeological sites). James Schoenwetter, field assistant, spent three weeks at the Museum's archaeological field station at Vernon, Arizona, to collect samples of sediments from archaeological and geological localities in the area. Subsequently he extracted ancient pollen grains from the several hundred samples and prepared



SALISH
POST
FIGURE

NORTHWEST
COAST
UNITED
STATES

EDWARD E.
AND
EMMA B.
AYER
HALL

them for microscopic analysis at the Geochronology Laboratories of the University of Arizona, which generously made available its specialized facilities to the Museum. At present he is engaged in analysis of this material, identifying the pollen types present and compiling the statistical charts and diagrams that can be utilized for later interpretation. The Museum thanks Dr. Terah L. Smiley, Director of the Geochronology Laboratories, for consultive co-operation.

The objectives of this pollen research-project are threefold: (1) to obtain a record of the types of plants and from this to deduce the environment at those localities at different points in time, (2) to relate information about prehistoric environment to known archaeological features, and (3) to investigate changes in the nature and importance of agricultural plants at different periods.

Though the project is yet far from complete, some progress has been made on these objectives. Archaeological sites in the Pine Lawn (New Mexico) area, which has been of interest to the Museum for many years, yielded less pollen than had been hoped but show changes in environment over the past 1,500 years and attest to the presence of agriculture at an early period. Some findings were expected, such as the presence of corn pollen in prehistoric pit-houses, and demonstrate pre-existing hypotheses. Other finds were not expected, such as an increase in the amount of pine pollen during a late period in the record, a discovery that might represent altitudinal or latitudinal movement of the pine forests that are now extensive in the area.

The few samples from sites so far analyzed for the Vernon (Arizona) area have also been productive. Changes in the amount of corn pollen associated with various sites have revealed changes in the economics of prehistoric peoples that may be correlated with periods of environmental change. Some of the reasons for the basic patterns of prehistoric puebloid life are coming to light as we observe fluctuations in the environmental record and corresponding settlement and abandonment of habitation sites.

As yet less than half of the sediment samples have been analyzed and therefore interpretations cannot be formulated. There is ample evidence, however, that this research will be a milestone in the use of palynological studies in archaeological research in the United States and in understanding the cultures and cultural dynamics of the prehistoric Southwest.

The Museum expresses its thanks to Robert Hooper (Springerville), Alfred H. Goesling (St. Johns), Frank Stradling (Concho), Earl Thode (Vernon), and Pacer Wiltbank (Eager) for permission to excavate on their lands in Arizona.

Dr. Donald Collier, Curator of South American Archaeology and Ethnology, continued his analysis of data and materials gathered in 1956 during the archaeological expedition to Casma Valley, Peru, and completed a preliminary report. At the time of the death of Dr. A. L. Kroeber, Research Associate in American Archaeology, the study of Nasca pottery from Peru in which Dr. Kroeber and Curator Collier had been collaborating was three-fourths completed, and Curator Collier will finish this work. During a two-month trip to attend international anthropological meetings in Vienna and Paris (see page 83), made possible by a National Science Foundation travel grant, Curator Collier studied exhibits and collections from Peru and Mexico in ethnological museums in Austria, Switzerland, France, and England.

George I. Quimby, Curator of North American Archaeology and Ethnology, continued research on problems of archaeology, geochronology, and environment in the Upper Great Lakes region, concentrating on events and phenomena of the period between A.D. 1000 and 1700. He made study trips to museums and universities in Michigan, Illinois, and Wisconsin, examined private collections of artifacts, and conducted field research in various parts of upper and lower Michigan and northeastern Wisconsin (see page 40). In Oceana County, Michigan, Curator Quimby surveyed and mapped an important late Woodland mound site. Test excavations were made in this site as well as in village sites of the same county. In the upper peninsula of Michigan surface collections were obtained from sites between St. Ignace and Menominee in the northern Lake Michigan basin. It was tentatively concluded that the pottery styles and types of arrowheads were similar throughout this region in late Woodland times.

Phillip H. Lewis, Associate Curator of Primitive Art, is attempting to create a working definition of primitive art that may be acceptable to art historians and to anthropologists. The problem of definition is both philosophical and practical. Too often the term *primitive art* has been used as an inclusive category into which is thrown all art that is non-European. Delimitation and definition of the field of study are necessary, especially for the practical purpose of selecting specimens for the Museum's new Hall of Primitive Art (Hall 2, Edward E. and Emma B. Ayer Hall).

Associate Curator Lewis has developed the theoretical position that (1) primitive art is art that is produced and used by members of primitive societies and that (2) the art of certain societies often included in primitive art should be excluded from the field of study as a different entity (excluded would be the art of the Indian civili-



BIRDSTONES OF BANDED SLATE

UPPER GREAT LAKES REGION FROM 1500 B.C. TO 100 B.C.

TURKEY-TAIL BLADES OF CHIPPED FLINT



zations of Middle and South America and of certain West African indigenous states). A main difference between civilized and primitive societies, as far as art is concerned, is the differential specialization of the artist: the professional artists of civilized societies produce one kind of art and the part-time artists of primitive societies produce another kind. In the Hall of Primitive Art, only the work of artists of primitive societies will be shown.

During the year Dr. Kenneth Starr, Curator of Asiatic Archaeology and Ethnology, carried on a program of research in Taiwan (Formosa), China, specifically pursuing his interest in the subject of Chinese ink-rubbings and generally acquainting himself with the anthropology of the island and its diverse peoples (see page 40). The study trip was made possible by a Grant for Research on Asia, sponsored jointly by the American Council of Learned Societies and the Social Science Research Council, with funds provided by the Ford Foundation and supplemented by the Museum. On his way to Taiwan, Curator Starr stopped for study in Hawaii, Japan, and Okinawa, and on his way back to the United States at the end of his six-month stay in Taiwan he visited Hong Kong, Vietnam, and Cambodia, where he spent several days at the famous ruins of Angkor. Then, moving gradually north and westward, he stopped in Thailand, Burma, and India and briefly visited various historic centers in the Near East and Europe.

During the first months of the year Assistant Curator Rinaldo joined efforts with Chief Curator Martin in preparing a report on two Pueblo Indian villages in eastern Arizona. Analysis of data provides additional clues that the growth of this prehistoric culture was strongly influenced by other Mogollon cultures from the southeast and by Chaco culture from the northeast and that ultimately certain Mogollon elements were incorporated into the cultures of the Hopi and Zuni.

Allen S. Liss, Custodian of Collections, participated in excavating the Cahokia village site near East St. Louis, Illinois, a project sponsored by the Illinois Archaeological Survey under the Illinois Archaeological Highway Salvage Program and carried on jointly by the University of Illinois, Southern Illinois University, Illinois State Museum, and Illinois Highway Department. Cahokia, which is one of the largest archaeological sites in North America and originally included several hundred mounds and a number of large villages, lies directly in the path of one of the new interstate highways under construction in Illinois and had already been partially destroyed. Three areas of greatest prehistoric Indian occupation that are to be destroyed were excavated under the Salvage Program.

Custodian Liss worked with the University of Illinois field crew that excavated one of these areas: a large village area east of the main ceremonial center of the site that was found to contain more than fifty houses constructed of spaced vertical poles set in the ground (it is assumed that this framework was covered with bark or matting). Several thousand sherds, tools of bone and stone, and quantities of unworked animal bones were recovered from the village that had been occupied by several groups of people. Stratified deposits plus carbon-14 dates to be derived from charred wood samples will yield considerable information concerning the former inhabitants of this Cahokia area of Illinois between A.D. 800 and 1400.

Accessions—Anthropology

An extremely rare and valuable Polynesian temple idol has been added to the Fuller Collection of archaeological and ethnological materials from the Pacific area (see Annual Report 1958, page 21). The idol is from the Cook Islands and was presented by Captain and Mrs. A. W. F. Fuller following its purchase at a London auction sale in June. Before its discovery at the sale by Captain Fuller, only eight other such specimens were known to exist. All of these (which are sometimes called carved slabs) are in museums outside the United States. The idol (see page 42) will be exhibited in Hall F (Polynesia and Micronesia).

A generous gift of 64 African art and ethnological specimens came from Mr. and Mrs. Clarence L. Frederick (each of whom was elected a Contributor of the Museum this year). This material will make possible better representation of Africa in the Hall of Primitive Art (see page 48) and will greatly enrich the Museum's African ethnological collections.

The collections of the Division of Asiatic Archaeology and Ethnology were notably enhanced during the year by a group of materials brought back from Taiwan by Curator Starr (see page 91) and by an outstanding collection of Chinese textiles purchased by the Museum from Dr. Carl Schuster. The materials from Taiwan include eleven rare rubbings—ink-on-paper copies of ancient stone inscriptions, one of which is a copy of a stone inscription of the Sung period (A.D. 960–1280) cut in memory of K'ung Chou, a lineal descendant of Confucius who died in A.D. 163 (this tenth- to thirteenth-century copy of a second-century inscription is one of the oldest and rarest of such rubbings in the United States). The excellent collection of textiles acquired from Dr. Schuster represents types

of textiles from widely separated regions of China and exemplifies a variety of techniques, including tie-dying, but with examples of what commonly is known as blue-thread work composing the largest portion. These are cotton pieces abundantly decorated in blue thread with folk-art motifs traditional among the peasantry of West China. This collection, numbering more than 900 pieces in all, is the largest, most selective, and best documented group of such textiles in the United States (see page 116).

Care of the Collections—Anthropology

Cleaning, checking, and moving the Mexican collection into Room 35 was continued by Custodian Liss under the direction of Curator Collier, assisted during the year by David de Kadt and Paul Edgett (Antioch College students) and Ralph Holmes and Miss Carol J. Murphy (volunteers). Expansion and reorganization of the study collection of textiles of the world were continued.

During the year an inventory of each drawer of specimens was completed for the Pacific Research Laboratory by Miss Barbara Bruckner and Miss Margaret Shurrager (volunteers). Portions of the study-storage collections in the Pacific Research Laboratory were rearranged to permit incorporation of the Polynesian materials of the Fuller Collection (see page 51). Cataloguing and processing approximately 2,500 specimens from the Fuller Collection was completed by Dr. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, who was aided in these tasks by Howard Anderson (assistant), Dennis Puleston (Antioch College student), and Miss Bruckner and Miss Shurrager.

Dr. Hoshien Tchen, Consultant, East Asian Collection, continued his work of cataloguing the Museum's large collection of Chinese rubbings, most of which was acquired many years ago by Dr. Berthold Laufer. This year Dr. Tchen bent his energies to completing the catalogue of rubbings of tomb reliefs dating from the Latter Han period (A.D. 25-220), those of the Wu Liang offering-shrines in north-east China being best known. This cataloguing included details such as translation of all inscriptions, identification of all pictorial elements, and explanatory notes. Apart from processing these rubbings of tomb reliefs, he catalogued a series of rare rubbings from Taiwan that required translation of many handwritten notes and identification of seal signatures of famous Chinese scholars. As these rubbings have been processed they have been placed into new cabinets acquired specifically for them.

Exhibits—Anthropology

Under the direction of Curator Force a major renovation of Hall F (Polynesia and Micronesia) was begun. Artist Gustaf Dalstrom, Miss Susan Schanck, an artist brought in for the project, and Preparator Walter C. Reese assisted with installation of fourteen new exhibits (Hawaii—4, Marquesas Islands—3, Society Islands—1, Cook and Austral islands—1, Easter Island—3, and New Zealand—2), all of which rely heavily on materials from the Fuller Collection (see page 51). Several new exhibit cases and a large map-panel were designed and installed by the divisions of Maintenance and Engineering, and E. John Piffner, Staff Artist, began a mural map showing the cultural areas of Oceania. Dioramist Alfred Lee Rowell started work on a diorama of a Palauan village that ultimately will be installed in Hall F.

Installation of exhibits in the Hall of Primitive Art (Hall 2, see page 48) began during the year under the direction of Curator Lewis, who was assisted by Walter Boyer, Ceramic Restorer, with the divisions of Maintenance and Engineering performing their usual herculean tasks of painting, lighting, rebuilding, and building exhibit cases as needed. The theme of the first exhibit is "The Human Image in Primitive Art." The human image is a favorite motif in primitive art that occurs in almost all cultures of the world. A sampling of this motif, therefore, will provide a cross-cultural view of primitive art, and, since the subject-matter is *man*, each viewer will be able to judge for himself the degree of abstraction from or conformity to this universal subject.

Curator Collier with the help of Artist Dalstrom prepared three new exhibits for Hall 8 (Ancient and Modern Indians of Mexico and Central America): two deal with Aztec sculpture and one is a chronological chart showing cultural periods of Mexico and their dates. "A Prehistoric Irrigation System," a new exhibit for Hall 7 (Ancient and Modern Indians of the Southwestern United States) was prepared by Assistant Curator Rinaldo and Artist Dalstrom. Toward the end of the year Curator Starr, with the co-operation of the Division of Maintenance, began renovating Hall 24 (George T. and Frances Gaylord Smith Hall, Ancient Chinese Civilization). The work, which is the first major renovation of this important hall since 1933, will include repainting the interiors of the exhibit cases, cleaning the glass, and installing additional lighting.



MODEL
OF
MYRTLEWOOD
BRANCH

Department of Botany

Research and Expeditions

Dr. Margery C. Carlson, Associate in Botany, spent the first three months of the year in Mexico collecting plants belonging to the Loranthaceae (mistletoes). She will determine whether or not these mostly parasitic plants are specific on certain hosts.

J. Francis Macbride, Curator of Peruvian Botany, completed for the *Flora of Peru* his treatment of the Boraginaceae, Verbenaceae, Labiatae, and Nolanaceae, which was published by the Museum (see page 99). Completed, but held for current changes, were manuscripts for the Begnoniaceae and Solanaceae.

Dr. Earl E. Sherff, Research Associate in Systematic Botany, continued his observations and study of subtropical vegetation in Florida. He identified for other collectors plants in certain groups in which he has specialized.

Dr. Rogers McVaugh, Curator of Vascular Plants at the University of Michigan and Research Associate on the staff of the Museum, continued work on his critical catalogue of the Sessé and Mociño collection of Mexican plants. These plants are on loan from Madrid.

The Curator Emeritus of Botany, Dr. B. E. Dahlgren, in collaboration with Dr. Sidney F. Glassman of the University of Illinois (Navy Pier, Chicago) completed for publication a manuscript on the wax palms of South America. In preparation is a manuscript on the wax palms of Cuba.

Dr. C. Earle Smith, Jr., Associate Curator of Vascular Plants, continued preparation of a critical catalogue of the Muhlenberg Herbarium. A problem in this study is identification of the collectors of the plants and thus indirectly the localities of collection so that the type specimens on which the Muhlenberg plant-names are based may be established. The approach has been to compare with the incomplete labels on the specimens photographs of authentic samples of the handwriting of various botanists, as contained principally in the Gray Autograph Collection (Harvard University) and in correspondence on file at the Academy of Natural Sciences of Philadelphia where the Muhlenberg Herbarium is kept on deposit for the American Philosophical Society. Final designation of the type specimens of many species in the Muhlenberg Herbarium cannot be made without consulting the Willdenow Herbarium in Berlin-Dahlem because many Muhlenberg species of the Gramineae and

Cyperaceae were described in the Willdenow edition of the *Species Plantarum* and the holotype is consequently in his collection. Dr. Smith initiated research on genera of the Meliaceae (other than *Cedrela*) in order to prepare a section on the Meliaceae for the *Flora of Panama* that is being published by Missouri Botanical Garden.

Dr. John W. Thieret, Curator of Economic Botany, continued his analyses and identification of collections obtained in 1959 during the Northern Great Plains Botanical Field Trip, prepared a number of entries of Scrophulariaceae for the *Index Nominum Generi-corum* (Utrecht), and completed a revision of the Scrophulariaceae—Buchnereae of Central America. In September he was accompanied by Dr. Robert Evers, of the Illinois Natural History Survey, on a short study-trip through grasslands of Nebraska and Kansas to collect grasses and to observe prairie vegetation in its autumnal aspect.

Dr. Louis O. Williams, Associate Curator of Central American Botany (who was appointed to the staff in September), began the task of checking, up-dating, and, when necessary, rewriting unpublished manuscript of the *Flora of Guatemala*, of which nine parts comprising 3,902 pages have been published (this flora is approximately half finished). He also made determinations of miscellaneous plant materials from Central America.

Miss Edith M. Vincent, Research Librarian, assisted staff members, correspondents, and workers from other institutions by locating botanical information for them.

Accessions—Botany

The largest gifts to the herbarium of vascular plants were 3,980 plants of the United States collected, identified, and presented by Miss Nellie V. Haynie and 3,566 plants of the United States collected, identified, and presented by Holly Reed Bennett. Among the largest and most interesting collections acquired through exchange were 980 specimens of vascular plants of Africa and Asia from Muséum National d'Histoire Naturelle, 640 plants of Mexico of the Pringle Collection from the University of Vermont, and 292 slides of various pollens prepared by the Pan American Petroleum Corporation (Tulsa) from material furnished by this Museum. A very good collection of 477 plants of South America was purchased from Professor H. S. Irwin (University of Texas). The cryptogamic herbarium received as a gift from Dr. William L. Culberson (Duke University) two type specimens of *Parmelia confoederata* Culberson and *Physcia culbersonii* Thomson.



"ROSES" (DETAIL)

FOLIO PRINT
FROM
THORNTON'S FAMOUS
BOTANICAL WORK
"THE TEMPLE OF FLORA"

The Museum received from the estate of the late Walter S. Ross of Chicago 32 framed aquatint folio prints of flowers from the famous botanical work *The Temple of Flora*, which was published in London by Robert J. Thornton, noted English physician and botanist. The prints, dating from 1798 to 1807, had been purchased by Mr. Ross from James Tatman of Chicago, who had secured them from Lady Jill Strathcaron of London.

Care of the Collections—Botany

Associate Curator Smith spent the greater portion of curatorial time locating, identifying, and collating duplicate specimens of vascular plants to send in exchange to other institutions (6,760 specimens have been shipped). All folders containing Illinois plants, which until now have been kept together as a separate herbarium, were inserted in the general herbarium, and the families and genera of Gymnospermae were brought together in the cases where they are now more easily consulted as a group. Robert J. Reich, Custodian of the Herbarium, Mrs. Jennie Pletinckx, and, for part of the year, Dr. K. S. Rai (graduate student) assisted in sorting and filing specimens. Mrs. Dorothy Gibson, Departmental Secretary, initiated the preparation of slides of floral dissections as an aid in identifying the large numbers of undetermined specimens that have accumulated over a period of years.

Mrs. Lenore B. Warner completed preparation of a generic index for the collection of photographs of type plant-specimens so that there are now numerical, generic, and family indexes to the more than 50,000 type-photographs in the collection. A total of 7,872 type-photographs was sent in exchange and 2,271 new negatives were added to the files. Reorganization of the collection of photographs of plant models, plant exhibits, and living plants and habitats consisting of some 80,000 negatives was completed by Mrs. Gibson.

Dr. Patricio Ponce de León, a cryptogamic botanist (formerly Professor of Botany at the University of Havana and Conservator of the Museum of the Havana Jardín Botánico), began in November a survey of the several sections of the cryptogamic herbarium. He will determine and proceed on steps necessary to place the cryptogamic collections in good order based on generally accepted systems of classification.

A total of 22,708 vascular plants was mounted and added to the herbarium. An effort was made to place in the herbarium all Central and northern South American material held in storage so that

it would be available for the use of Associate Curator Williams in his preparation of the *Flora of Guatemala* (see page 56). Miss Alice Middleton, aided for part of the year by Miss Suzy Slavin, Antioch College student, and by other student assistants, mounted specimens. Eleven senior Girl Scouts of the South Cook County Council, directed in a Museum Aid Project in plant mounting by Custodian Reich and Mrs. Gibson, contributed a total of thirty-six hours of service on six alternate Saturdays.

Exhibits—Botany

Upon completion early in the year of reorganization of the Hall of North American Trees (Hall 26, Charles F. Millspaugh Hall) Curator of Exhibits Emil Sella and Technician Frank Boryca, assisted by Artist Dean Randall, returned to the task of preparing and assembling the many leafy fronds needed for the full-size model of the fossil cycadophyte (*Cycadeoidea ingens*) that was started some years ago. After most of the intricate lacelike flowers had been completed, work on the model was stopped to allow staff members of the Plant Reproduction Laboratory to devote full time to urgent reconditioning of other botanical exhibits. Soon to be completed, the reconstruction will be exhibited in Martin A. and Carrie Ryerson Hall (Hall 29, Plant Life). The reproduction of a fruiting branch of myrtlewood (*Umbellularia californica*) for the exhibit of the Laurel family in Hall 29 was prepared by Technician Boryca.

Plans for revising the exhibits of useful plants and their products in Hall 25 and Hall 28 were developed by Curator Thieret in consultation with other members of the staff. Exhibits of natural lacquers and lac, cork, and natural resins were revised and reinstalled jointly by Curator Thieret, Preparator Walter Huebner, and Artist-Preparator Samuel H. Grove, Jr., in an effort to make our exhibits of economic botanical materials educationally effective as well as pleasing. Closing the windows in Hall 25 and installation of fluorescent case-lighting have enhanced the appearance of the hall. Eventually this hall will contain exhibits dealing with plant anatomy, physiology, genetics, and other aspects of botanical sciences.

MAMMOTH



REINSTALLED IN ERNEST R. GRAHAM HALL

Department of Geology

Research and Expeditions

Dr. Rainer Zangerl, Curator of Fossil Reptiles, and Dr. Eugene S. Richardson, Jr., Curator of Fossil Invertebrates, continued their work on the Mecca black-shale study (see Annual Report 1959, page 59). During the year a number of aspects of the problem were described in manuscript, along with topographic illustrations, text illustrations, and charts. Work in the laboratory included printing numerous X-ray plates with an electronic printer purchased last year with National Science Foundation funds, identifying much of the invertebrate material that had been collected in previous years in Parke County (Indiana), and regrouping the entire vertebrate collection from Mecca and Logan quarries in order to compare the mode of preservation and the nature of the fossil remains.

Early in spring Curator Richardson and Curator Zangerl arranged another field conference with members of the Indiana Geological Survey in an effort to clarify some complex stratigraphic problems in Parke County. Present commercial stripping in the Dee Clay Pit (about a mile east of Logan quarry) exposed the same black-shale horizon, but here the shale proved to be a freshwater deposit containing an entirely different fauna from that at Logan quarry. A small excavation in the Dee Pit (known as Garrard quarry) to get an adequate sample of the fauna was made during two weeks early in summer by Curator and Mrs. Zangerl and Dr. Archie MacAlpin, of the Department of Geology of the University of Notre Dame. Later in the summer Curator Zangerl, D. Dwight Davis, Curator of Vertebrate Anatomy at the Museum, and Stephen Collings, of Rockville, Indiana, spent another week quarrying the recent exposure, and Curator Davis produced some excellent photographs of quarry activities.

Dr. Robert H. Denison, Curator of Fossil Fishes, continued his study of the Cyathaspididae, a family of Silurian and Devonian jawless vertebrates. In addition to a general revision of the group, he prepared descriptions of new material from the Yukon, New Jersey, and Pennsylvania.

During June and July, Curator Denison and Curator Richardson collected at a new Lower Devonian locality in the northern part of the Big Horn Mountains of Wyoming (see page 40). They were assisted by their sons and John Cutler, a geology student from the University of Wyoming. A small quarry was opened on the side of

a canyon in limestone that had been deposited in an ancient stream or estuary. A large collection of fossil fishes was obtained, of which most notable are lungfishes, the oldest known specimens of this group with the exception of a single skull from Europe. In addition, the quarry yielded well-preserved plants, which are being studied by Dr. Erling Dorf of Princeton University, and eurypterids, which are being described by Erik N. Kjellesvig-Waering, Research Associate.

George Langford, Curator of Fossil Plants, made steady progress in his study of selected groups of Paleozoic and Mesozoic plants and continued his work on systematic classification, noting the characteristic features of certain new species and recording them with appropriate illustrations. He also spent considerable time in correcting and revising specimen labels.

William D. Turnbull, Assistant Curator of Fossil Mammals, continued his studies of the mammalian fauna of the Eocene Washakie formation and, in this connection, looked over the materials from this formation in the collections at Princeton and Yale universities and at the American Museum of Natural History. Assisted by Harold Hinds, a student volunteer, he examined some of the ant-hill concentrates from the Lower Washakie beds of southern Wyoming and sorted out the tiny teeth and bones of rodents and insectivores. He also completed the descriptive portion of his study of the various adaptive types of mammalian masticatory mechanisms and, in collaboration with Dr. Charles A. Reed (of the College of Pharmacy, University of Illinois), worked on some Oligocene and mid-Miocene vertebrate microfossils from Nebraska.

Dr. Edward J. Olsen, Associate Curator of Mineralogy, who joined the Museum staff in September, immediately began three major projects, two of which were completed and reports prepared. He is currently engaged in initial calculations on the theoretical significance of low temperature compositional relations in two magnesium silicates.

Early in August, on his way to Copenhagen to attend the International Geological Congress (see page 85), Dr. Sharat K. Roy, Chief Curator of Geology, spent a week in the field in the mineral-rich area around Kragero (south Norway) and collected several specimens of rose-colored manganapatite and one of beautifully radiating crystals of pyroxene, both of which minerals were not represented in our collections. In the field his attention was drawn to the fall of a meteorite in 1928 on a farm on the nearby island of Oteroy, which he visited to see the exact spot where the meteorite fell. The owner of the farm related the circumstances of the fall and said that Professor C. T. Johne of Kragero might still have a sample of the



DR. OLSEN
IN THE
CHALMERS
MINERALOGICAL
LABORATORY

meteorite. Through the assistance and interest of Mrs. Wencke Hasselgren, owner of the neighboring island, Chief Curator Roy was able to locate Professor Johnne, who indeed had in his possession a few fragments of the meteorite and who generously donated most of them to the Museum. Grateful acknowledgement is made to Professor Johnne and to Mrs. Hasselgren. The Oteroy meteorite is currently being studied. Two other meteorites (the Springwater pallasite, in which a new phosphate mineral was found, and the Walters meteorite) were studied. Work on chondrules continued.

Bertram G. Woodland, Associate Curator of Petrology, completed a study of the nature and origin of small-scale structures in the rocks of an area in northeast Vermont and worked on the metamorphic history of the rocks and on the petrography of a series of basic dikes in the same area. He collaborated with Chief Curator Roy on the new phosphate mineral Farringtonite found in the Springwater meteorite and also made chemical analyses of the major constituents of a rock sample from volcan San Vicente (El Salvador) and of a basic dike rock from northeast Vermont. Partial analyses were made of five shale samples from the Mecca and Logan quarries to provide data on variations in their organic content for the Mecca project (see page 61). In collaboration with the Museum's Department of Anthropology he made petrographic studies of some forty thin-sections of sherds collected in 1959 by the Southwest Archaeological Expedition and of a few sherds from other localities, aided in identifying materials of various artifacts, and, after investigating the corrosion of bronzes in the collection, advised on treatment. Kenneth Rippere and Robert Hausman, Antioch College students, helped with work of the Division of Mineralogy and Petrology.

Miss Maidi Wiebe, Departmental Artist, spent three weeks on a tour to study the prehistoric art of the Ice Age in the caves of Dordogne in France (Lascaux, Les Combarelles, Font-de-Gamme, and Pech Merle) and of El Castillo and Altamira in Spain.

Accessions—Geology

In the collections made at Garrard quarry in Parke County, Indiana (see page 61), many small paleoniscoid fishes have been discovered that are outstanding because of their nearly perfect state of preservation (associated with them are numerous freshwater prawns). An articulated but incomplete shark, which is related to modern basking sharks, was purchased from Marion C. Bonner, who collected it in the Cretaceous Niobrara formation of Kansas. Two additions to



FOSSIL FISHES
AND EURYPTERIDS
WERE COLLECTED IN
THIS CANYON

PALEOZOIC LIMESTONE CLIFFS
AT MOUTH OF
COTTONWOOD CANYON IN
BIG HORN MOUNTAINS
OF WYOMING
TOWER ABOVE
MUSEUM FIELD TRUCK

the collection of fossil mammals are the almost complete skeleton of an American mastodon from northern Indiana (gift of Karl H. Huppert, on whose property the specimen was found) and forty-nine casts of South American Tertiary mammalian and bird remains that were acquired in exchange with La Plata Museum in Argentina. Among accessions of fossil invertebrates twenty-four pyritized Pennsylvanian snails (*Shansiella carbonaria*) from Illinois (gift of J. L. Cunningham) are examples of the most elegant form of mineral replacement of a fossil shell, every detail of the original ornament being preserved in bright brassy pyrite.

Representatives of fourteen different falls of meteorites were added to the collection, twelve of which were received through exchange and two as gifts. All the meteorites are new to the collection and may be considered a very satisfactory addition in any one year.

A noteworthy purchase through the Chalmers Crystal Fund is a sample of the rare mineral holmquistite that is so large that portions of it will provide excellent material to exchange with other museums. A collection of minerals from a unique deposit at Ivigtut, Greenland, was received in exchange with the Mineralogical Museum of Copenhagen, and an extensive suite of igneous and metamorphic rocks, which Associate Curator Woodland collected during a field trip in western Norway preceding the International Geological Congress (see page 85), was given by him to the Museum.

Care of the Collections—Geology

David Techter, Assistant in the Division of Fossil Vertebrates, cleaned, prepared, and catalogued several lots of Texas Permian pelycosaurs and *Eryops* received from the University of Chicago and, upon completion of this project, the entire Walker Museum Collection was virtually integrated into our own. Considerable time also was spent in sorting and cataloguing the Cretaceous fish from Alabama that are currently being studied by Shelton P. Applegate, many of which he gave to the Museum.

The extensive Nelson Collection of fossil invertebrates has now been completely unpacked and sorted. The Cenozoic mollusks from the east coast of the United States are being identified and catalogued by Chih-wei Pan, part-time assistant. The remainder of the Nelson Collection of minerals was checked and about a hundred specimens were selected for the study collection. With the help of Miss Judith Linder and Kenneth Rippere, Antioch College students, a complete card index of the lithology collection was prepared.

The Paleontology Laboratory has placed in operation the equipment for making copper replicas of fossils. This process ("electroforming"), which is essentially the same operation that is used to make copper plates for high-speed printing, quickly reproduces a specimen or reconstructs one from a natural cast in durable and readily studied form that is greatly superior to plaster casting.

Exhibits—Geology

Ernest R. Graham Hall (Hall 38) has been considerably transformed with the rearrangement and reinstallation of a number of fossil-mammal exhibits. The mammoth and mastodon skeletons were reinstalled by Chief Preparator Orville L. Gilpin and Preparator Ronald J. Lambert and mounted on a single base, and a skeleton of a dawn horse (*Hyracotherium*) was assembled by Preparator Lambert for the exhibit of fossil horses.

During the year a program of reinstallation was begun in the Hall of Economic Geology (Hall 36) to bring the exhibits up to date, giving special emphasis to minerals that have increased in economic importance. Ten exhibits were dismantled and reinstalled with new backgrounds and revised labels, and, where necessary, specimens were replaced by better ones. Considerable time was spent on plans for reinstallation and renovation of H. N. Higinbotham Hall (Hall 31, Gems and Jewels), which include refinishing the interior and exterior of the exhibit cases and adding new specimens acquired by the Museum in recent years.

The exhibition program was carried on by Harry E. Changnon, Curator of Exhibits, Associate Curator Woodland, Assistant Henry Horback, and Preparator Henry U. Taylor. Illustrations were ably done by Miss Maidi Wiebe, Departmental Artist.

TREE SNAIL (LIGUUS)



IN THE MUSEUM COLLECTIONS

Department of Zoology

Research and Expeditions

Staff members were afield, gathering material and data in the United States, Africa, southern Asia, and the Philippines. We also had an expedition in South America by a nonstaff member.

DUTCH GUIANA. Harry A. Beatty, of New York, who has so successfully collected for us in Liberia, Gabon, and Angola in years past, was engaged to lead the Guiana Zoological Expedition of 1960-61 in Surinam (Dutch Guiana) (see page 40). He started on July 15 to collect birds and mammals in unworked parts of the interior, especially in the isolated Wilhelmina Mountains and the virtually unexplored Tumuc-Humac range on the Brazilian frontier.

UNITED STATES. Associate Curator Henry S. Dybas spent a week examining insect fauna of caves in Illinois, Indiana, and Kentucky in company with Dr. Karl Krekeler of Valparaiso University and Richard Powell of Indiana University.

Curator Loren P. Woods made several field trips in the Great Lakes region for local fishes (see page 40): off Port Washington, Wisconsin, in June; off Grand Haven, Michigan, in August (on the United States Fish and Wildlife Service motor vessel *Cisco*); and in the Lake Huron and Lake Superior areas in September and October.

Curator Emeritus Fritz Haas made representative collections of mollusks in the Chiricahua Mountains in Arizona (see page 40), and Curator Alan Solem also made a field trip in the western states to collect mollusks from type localities (see page 40).

NEPAL. Field Associate Robert L. Fleming, who is with his Mission in Nepal, found some time to continue his natural-history collecting, especially birds (see page 24).

PHILIPPINE ISLANDS. Associate D. S. Rabor, during vacation time from his teaching duties in Silliman University in the Philippines, led an expedition to extreme northeastern Luzon, one of the least-known parts of the island, to collect birds.

EGYPT. Research Associate Harry Hoogstraal, who is still stationed in Egypt, continued to send collections of animals.

DIVISION OF BIRDS. Curator Emmet R. Blake has completed a revision of the American crows and jays and has begun a revision of the American family Icteridae (blackbirds, orioles, etc.), both for the series of volumes continuing Peters' *Check-list of Birds of the World*. For the same series Chief Curator Austin L. Rand has nearly finished the section on the family Nectarinidae (sunbirds)

and during the year has had published two sections in this series: on the Laniidae (shrikes) and on the African Pycnonotidae (bulbuls). Curator Blake continued work on his checklist of birds of British Guiana and, in the course of this work, investigated various South American species, one result being a revision of the South American short-eared owls (to be published in Colombia).

Chief Curator Rand revised the American short-tailed hawk, investigated the tongue shape in flowerpeckers and related honey-eating birds, and worked on the taxonomy of Philippine birds. He began work on a handbook of birds of New Guinea, with E. T. Gilliard of the American Museum as co-author.

Associate Curator Melvin A. Traylor, Jr., has continued taxonomic studies of African birds in preparation of his checklist of birds of Angola (aided by a grant from the National Science Foundation). He co-operated with Research Associate Hoogstraal in a study of migratory birds of Egypt that are hosts to arthropod parasites (to be published by World Health Organization) and worked with Field Associate Fleming on further studies of Nepal birds.

DIVISION OF MAMMALS. The checklist of South American mammals that is being prepared by Curator Philip Hershkovitz (aided by a grant from the National Science Foundation) has been enlarged to include all marine mammals (whales, etc.) occurring in the Atlantic and Pacific oceans south of the Tropic of Cancer. Work has continued on revising certain groups of South American mammals, notably rodents, primates, and deer. Assistant Curator Karl Koopman is continuing his studies of bats of North Africa.

DIVISION OF FISHES. Curator Woods continued his taxonomic studies of marine fishes of the Gulf of Mexico, Caribbean Sea, and the Atlantic Ocean off northeastern South America, completing descriptions of a new species of flatfish and a new species of primitive deep-water spiny-rayed fish. Associate Marion Grey continued her interest in the family Gonostomatidae, studying a small collection of these fishes that were killed by the lava-flow of the Mauna Loa (Hawaii) eruption of 1953.

DIVISION OF REPTILES AND AMPHIBIANS. Curator Robert F. Inger continued his studies of reptiles and amphibians of Borneo (supported in part by a grant from the National Science Foundation) and of amphibians of Parc National de la Garamba (Congo). Also, with the collaboration of Chin Phui Kong of the Department of Agriculture, Colony of North Borneo (aided by a grant from the National Science Foundation) Curator Inger completed a study of the freshwater fishes of North Borneo. With Assistant Curator Hymen Marx he completed the analysis of food habits of Congo



CURATOR AND MRS. INGER RECORD FROG CALLS
IN THE CONGO



amphibians and continued a revision of a genus of snakes, and with Dr. Bernard Greenberg, of Roosevelt University, he continued a study of the reproductive cycle of a Borneo frog, based on material collected at various seasons by Tom Harrisson of Sarawak.

DIVISION OF INSECTS. Curator Rupert L. Wenzel spent most of his research time on bat flies of the families Streblidae and Nycteribiidae of Panama, a study that he is making in collaboration with Captain Vernon J. Tipton of the United States Army. Curator Wenzel completed a manuscript on these families for a monograph to be published by the United States Department of Agriculture. Associate Curator Dybas continued research on feather-winged beetles (family Ptiliidae) and completed the description of a new fossil species from Baltic amber.

Research Associate Charles H. Seevers completed part of his monographic study of the rove beetles that are guests of ants (this is a companion study to the monograph on the rove beetles that are guests of termites that was published by the Museum three years ago). In collaboration with Curator Wenzel, Associate Harry G. Nelson began a description of a new beetle with piercing-sucking mouthparts and also studied the taxonomy of certain dryopoid water beetles (genus *Elsianus*). Associate Lillian A. Ross continued her studies of spiders.

DIVISION OF LOWER INVERTEBRATES. Curator Emeritus Haas reviewed the vertiginid land mollusks of the Dutch West Indies, continued studies of South American mollusks, and, with Curator Solem, reported on landsnails from British Honduras. With F. F. Laidlaw of Suffolk, England (whose fine collection of Malayan landsnails was purchased by the Museum in 1958), Curator Solem completed a revision of the Indonesian landsnails of the genus *Amphidromus*. Curator Solem made considerable progress in studying specimens and compiling material for a review of Panama nonmarine mollusks to be based largely on specimens collected by Solem and Dybas on their expedition in 1959 to Panama. Assistant Ernest J. Roscoe continued study of the mollusks of the pluvial Lake Bonneville in Utah and began an annotated list of recent and Pleistocene mollusks of Utah as part of a project directed by Dr. Aurele La Rocque of Ohio State University to produce a modern checklist of North American mollusks.

DIVISION OF ANATOMY. Curator D. Dwight Davis continued his studies of the comparative anatomy and evolution of the Carnivores. Research Associate Waldemar Meister carried on studies of the histological structure of the long bones in penguins, and Research Associate R. M. Strong continued study of anatomy of birds.

Accessions—Zoology

Growth of our collections continued, as is indicated by the following totals for the year's accessions: mammals—1,484; birds—4,659; amphibians and reptiles—3,181; fishes—2,696; insects—113,985; lower invertebrates—56,108; and anatomical material—45 specimens. As usual, this material came as exchanges, gifts, or purchases or was collected by our expeditions, and the size of an individual accession varied from a single specimen to a great number of specimens.

The largest accession received during the year was the Malkin Collection of beetles. This collection, which was acquired by purchase, includes about 100,000 specimens, mostly North American, with especially strong representation from the Pacific Northwest.

A purchase of 78 specimens of fishes from the Strait of Messina came from a locality known since Jason's ship passed by in search of the Golden Fleece. The whirlpool Charybdis (whose dangers to early mariners were personified by the ancients as a female monster) plays a part in bringing deep-sea fishes to the surface where they are easily dipped up, with the result that beautifully preserved specimens unmarred by dredge are obtained. This fact has been well known since ichthyology began, and our accession is important as excellent material of many forms from the type locality.

A collection of 12,500 tree snails of Florida and the West Indies made by the late Michael Price de Boe and Mizpah de Boe was purchased through the generosity of Museum Contributor Dr. Jeanne S. Schwengel. These shells have long been popular with collectors because of their beauty and variability, and a great many forms have been named. This collection, which contains series from many localities representing most of the more-than-50 named forms, provides material for genetic research in color pattern. Another collection of tree snails that was received during the year is the Winte Collection (about 9,000 specimens), notable for the fine exhibition quality of the shells (purchase).

Among other notable accessions for the year are: 384 birds of Egypt and the Sudan from Research Associate Hoogstraal (gift); 1,551 reptiles and amphibians of Formosa and Borneo collected by Dr. Robert E. Kuntz (gift); 138 lots of fishes of the inshore and off-shore waters of the Caribbean received from the United States Fish and Wildlife Service (gift); 243 fossil insects in Baltic amber, including a new species of Ptiliid beetle (purchase); 135 rove beetles, mostly ant guests, including 95 paratypes of 68 species from the United States National Museum (exchange); and 17 slides of water-mites from Dr. Robert M. Crowell (gift).



PART OF
NEW
EXHIBIT

BOARDMAN
CONOVER
HALL

Care of the Collections—Zoology

Research involves a great amount of routine, and much museum routine revolves around our specimens and their care. So much a matter of routine is the work of unpacking, sorting, identifying, cataloguing, labeling, arranging, filing, and periodic inspecting and fumigating that we tend to pass it by without thought. But certain points in this essential never-ending task are worth mentioning.

Associate Ellen T. Smith arranged and identified the incoming birds of the Philippine Islands, while Assistant M. Dianne Maurer processed those from many other areas. Assistant Janet Wright, in addition to a considerable amount of illustrating for herpetological reports, all but completed cataloguing the Taylor Collection of reptiles and amphibians. Assistant Pearl Sonoda processed incoming collections of fishes and also rearranged the fish collection.

All our exotic butterflies, except those of the Strecker Collection, were brought together and arranged during the summer by Associate Nelson, a tedious task that involved much relabeling. Assistant August Ziemer, aided by Sander Marcus and John W. Saul III (Antioch College students), pinned and labeled many thousands of insects. The slide collection of biting and sucking lice was filed and several thousand reprints of papers on insects were placed in the division's reprint library with the assistance of Mrs. Catherine Halas, Antioch College student. The three Antioch students also helped with processing 16,500 sets of mollusks totaling about 175,000 specimens, thus reducing considerably the backlog accumulated during the past several years.

Osteologist Sophie Andris prepared 43 skeletons and about 1,100 skulls. Tanner Dominick Villa and Assistant Taxidermist Mario Villa continued the task of cleaning and moth-proofing certain older specimens as well as keeping abreast of current accessions.

Exhibits—Zoology

Two new bird exhibits were installed, a fish exhibit was revised and reinstalled, and several mammal exhibits were renovated. Work progressed on plans and preparation of material for the first five exhibits that are proposed for the revision of Hall 15 (Mammals in Systematic Arrangement).

One more exhibit is needed to bring to completion the synoptic series of birds of the world in Boardman Conover Hall (Hall 21). One of the two current additions shows owls, barn owls, cuckoos,

plantain eaters, parrots, pigeons, and sandgrouse and the other shows the shorebirds and their relatives. Specimens illustrate the range of variation in each bird family and collateral material (chiefly art work) tells about the way of life of some of the birds. The dodo, a turkey-sized aberrant pigeon long extinct, is represented by a replica, for no specimens of it exist.

The revised exhibit of "living fossil fishes" in Hall O (Fishes) presents models of the most primitive of living fishes (gar, bowfin, sturgeon, paddle fish, lungfish, and, most primitive of all, lamprey). There is also considerable new collateral material, which includes a lungfish hibernating in its capsule in the mud of a dried-up pond, casts of fossil teeth and bones of various fossil fishes, and developmental stages of certain living species. The exhibits of walrus, manatee, and Weddell's seal in the Hall of Marine Mammals (Hall N) were renovated. The animals were cleaned, the scenery was retouched, and the snow, which was dingy with age, was replaced with fresh white snow made from granulated sugar.

Exhibition work was carried on by Artist Joseph B. Krstolich, Taxidermist Carl W. Cotton, and Assistant Taxidermist Peter Anderson. Art work was prepared by Staff Artist E. John Pfiffner, who also assisted with design.

Besides the regular exhibition work, the taxidermists have various tasks that in the aggregate assume some importance. Expedition equipment and supplies are cared for and checked in and out to authorized persons. Bird and mammal specimens are repaired, and exceptionally fine specimens that are received in the flesh are made ready for future exhibition. Help is given in preparing skeleton specimens of large animals from the zoo, and occasionally specialized work is done for other departments of the Museum, such as rehairing a Maori scalp for the Department of Anthropology.

LIBRARY OF THE MUSEUM

SCIENTIFIC SOCIETIES

CO-OPERATION

PUBLIC RELATIONS

MOTION PICTURES

PHOTOGRAPHY AND
ILLUSTRATION

THE BOOK SHOP

PUBLICATIONS AND
PRINTING

MAINTENANCE, CONSTRUCTION
AND ENGINEERING



BALUBA
FIGURINE

EDWARD E.
AND
EMMA B.
AYER
HALL

LIBRARY OF THE MUSEUM

The Library's receipts during the year totaled 26,612 items, including books, periodicals, pamphlets, microfilms, photostats, maps, and atlases, all relating to the Museum's fields of interest. Since materials of research are not limited to books, the journals, bulletins, transactions, proceedings, memoirs, and all other publications appearing in periodic succession greatly enrich the Library's collection and contribute substantially to scientific research. During the year 16,282 serials were received and recorded on the Kardex. The acquisition of a sizable proportion of serials is made possible by the cordial co-operation, through exchange, of issuing-agencies all over the world. The Library is receiving some of the most important periodicals currently being published.

Extensive as are the exchange relations of the Museum, many books and periodicals in its field can be obtained only by purchase. The following selections are representative of material acquired this year by purchase: *Natural History Review*, a quarterly journal of biological science (v. 1-5, 1861-65); *Neues systematisches Conchyliencabinet . . .* (1769-95) (by Friedrich Heinrich Wilhelm Martini and Johann Hieronymus Chemnitz); *Beiträge zur Kenntniss der Fauna mexikanischer Land- und Süsswasser-conchylien* (1873) (by Hermann Strebel and Georg Pfeffer); *Biologische Untersuchungen . . .* (neue Folge, 19 v., 1890-1921) (by Gustaf Retzius); *Leçons d'anatomie comparée de Georges Cuvier* (2 éd., cor., et augm., 8 v. in 9, 1835-46) (by Georges Cuvier); *Map of Hispanic America on the scale of 1:1,000,000* (published by American Geographic Society); and 23 revised maps (acquired to replace provisional sheets that had been issued from time to time).

Accessions totaled 2,110 volumes and withdrawals amounted to 164 volumes. Proceeds from the sale of duplicate material amounted to more than \$330. The many important gifts received by the Library contributed substantially to the resources of the collection. This opportunity is taken to thank all donors (listed on page 125) for their interested support.

The reference service in the General Reading Room is the most difficult to measure statistically, and no idea can be given of the time, ingenuity, and imagination required for the reference staff to find answers to many of the more perplexing questions that were asked by the Library's users. The number of books (2,383) that were circulated to visitors in the Reading Room shows only a fraction of the use of the Library's collection. Publications assigned to the divisional libraries for shelving circulate freely within the section. No

reasonably accurate numerical estimate of the actual use of books throughout the Museum can be made, but the figure could be well up in the thousands.

Besides the use of books within the Museum, the Library serves (and is in turn served by) outside libraries through interlibrary loans. Hence our resources and those of other institutions were supplemented by the 257 volumes borrowed and lent.

The cataloguing division catalogued and classified 1,471 titles consisting of 4,256 volumes and filed 13,636 cards in the General Card Catalogue and the four departmental card catalogues. The policy, begun last year, of reporting to the National Union Catalog the publications acquired during the year representing unique additions to the Library's specialized collection was continued. Thus 392 entries were contributed for inclusion in *The National Union Catalog: A cumulative author list representing Library of Congress printed cards and titles reported by other American libraries*.

Because the Library of Congress does not provide analytics for all monographs published, the cataloguing division prepared 1,773 analytics for monographs in series received in the Museum. The Authorities File, originated in the Museum Library for use as an important reference tool for the specialized cataloguing work, was enlarged by the addition of 2,045 cards. Of the extensive additions made to the East Asia Collection, many were received on exchange and have not yet been catalogued. The 82 Chinese-language books, comprising 333 volumes, which were acquired by purchase during the year, have been catalogued.

Of signal importance was the preparation and completion of a card catalogue for the Museum's collection of more than 250 Tibetan xylographs (books printed from wood blocks). These books, which were bequeathed by the late Dr. Berthold Laufer, former Chief Curator of Anthropology and well-known sinologist, had remained unorganized and unused for many years because of difficulty in finding a properly qualified scholar to catalogue and classify them. It was the Museum's good fortune to secure the scholarly services of Dr. Chie Nakane, of the University of Tokyo, who Romanized the titles and classified and sorted the books.

The catalogue prepared by Miss Nakane consists of 207 cards grouped under five subject-divisions representing 250 books plus fragmentary pieces. The greater portion of the collection, which is exceedingly rare, required the use of Sanscrit in the translation of titles. Subsequently, largely through the careful work of Chih-wei Pan of the Library staff and Custodian Allen S. Liss of the Department of Anthropology, each book was wrapped and filed in a dust-

proof metal cabinet especially provided for the purpose. Thus these books, most of them no longer obtainable, are available for use by scholars throughout the world who periodically write to the Museum for assistance in finding some rare Tibetan book. It is a great satisfaction to have this collection properly catalogued, organized, and housed for study and reference.

The Museum Library, as well as all other libraries contributing to the listing of their holdings in the *Union List of Serials*, has been called upon to participate in the compilation of the third and definitive edition of this important work. Since no library can own more than a fraction of the total number of serials published, this co-operative undertaking of the principal libraries of the United States and Canada results in the continuation of one of the most useful and time-saving bibliographic tools. In addition to titles listed in earlier editions, the third edition will include a record of newly acquired serials that began publication before 1950. Careful and intensive work must be devoted to the tedious process of checking the sections sent periodically by the publisher. It is expected that the forthcoming edition will be published in 1962.

A total of 262 miscellaneous items in foreign languages was referred to the Library for translation into English by various members of the Library staff.

Despite the absence of George Stosius for three months on sick leave, the binding program has been satisfactory: 1,090 volumes were prepared in the Library for binding and bound by a commercial bindery and 764 volumes were expertly repaired and restored by the Library staff (rehabilitation of many volumes was accomplished by the application of a liquid plastic adhesive, and hundreds of maps were reconditioned by the same method). Altogether, 4,299 volumes were lettered with the electric stylus. As a means of preservation, numerous pamphlets were placed in permanent binders before housing on the shelves.

Cataloguing and classification have begun for the collection of books bequeathed to the Library in 1957 by the late Dr. Karl P. Schmidt. Approximately 350 books, of a general nature ranging from Fowler's *Dictionary of Modern English Usage* to Lyell's *Principles of Geology* to the manuscript of the late Edward E. Ayer's *Early Reminiscences, 1860-1918*, have been catalogued. The Schmidt library is particularly rich in works on evolution, including 48 volumes by and about Darwin, Wallace, Huxley, Haeckel, and Romanes. This collection, together with Dr. Schmidt's scientific library (given also in 1957), is a valuable and valued addition to the resources of the Library.

The Library has no interest in acquiring collectors' items per se, but many of the most-needed older books in the field of the natural sciences fall into that category. A selective process is employed in the accumulation and maintenance of the many irreplaceable materials without which future scientific study and investigation would be seriously retarded.

In the latter part of 1960, the task of recataloguing and reclassifying the material in the Library's Rare Book Room was begun. This work became necessary when it was discovered that some volumes had, in the past, been classified (given numbers) but not catalogued (no card had been made). Hence these volumes were not represented in the Library's catalogue. Despite the pressure of other work and the fact that each of these books requires three or four times the work given to newer volumes, they are being properly classified under the Library of Congress system. It is hoped that this project can be completed in 1961. In recataloguing the material, it has been found that the leather bindings of many volumes are in need of restorative treatment. Work has begun on restoring the bindings by the application of neat's-foot oil.

A general shifting of all volumes and a rearrangement of the shelving of the oversize books in the Zoology Library was necessitated by the growth of the collection and the need to provide shelf-space for new works classified under the Library of Congress system. A similar problem prevailed in the Botany Library. Although the section housing the materials classified under the Library of Congress system had been completely reorganized the year before, it again became necessary to rearrange the Botany Library to provide space for newly acquired volumes.

During the year Miss Muriel G. Hightower, Robert E. Ramsdell, and Miss Perry Watts, Antioch College students, assisted with the clerical work of the General Library.

ACTIVITIES OF STAFF MEMBERS IN SCIENTIFIC AND PROFESSIONAL SOCIETIES

Dr. Paul S. Martin, Chief Curator of Anthropology, Dr. Donald Collier, Curator of South American Archaeology and Ethnology, and George I. Quimby, Curator of North American Archaeology and Ethnology, attended the meetings at Yale University of the Society for American Archaeology, where Chief Curator Martin was chairman of a section on contributed papers. Dr. Martin attended a symposium at the University of Illinois on ceramic technology and, with Dr. John B. Rinaldo, Assistant Curator of Archaeology, the Pecos Conference in Flagstaff on southwestern archaeology. Curator Quimby attended the meetings at the University of Illinois of the Midwest Archaeological Conference.

During July and August Curator Collier (under a travel grant from the National Science Foundation) participated in three important science meetings in Europe: a symposium sponsored by the Wenner-Gren Foundation for Anthropological Research (in Burg Wartenstein, Austria), the 34th International Congress of Americanists (in Vienna), and the 6th International Congress of Anthropological and Ethnological Sciences (in Paris). He served on the Board of Directors of the Institute of Andean Research.

Dr. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, attended the meeting at Indiana University of the Central States Anthropological Society, of which he was elected second vice-president, and the Viking Fund medals and awards presentation dinner in New York. He continued as a member of the standing committee on museums in Pacific research of the Pacific Science Association. Phillip H. Lewis, Associate Curator of Primitive Art, attended the meetings in Minneapolis of the American Anthropological Association.

John R. Millar, Chief Curator of Botany, attended meetings in Lawrence, Kansas, of the 4th Conference of Directors of Systematic Collections. Dr. John W. Thieret, Curator of Economic Botany, attended the meeting at Purdue University of the newly formed Society for Economic Botany. Dr. C. Earle Smith, Jr., Associate Curator of Vascular Plants, presided at a symposium on regional floras at the meeting in Stillwater, Oklahoma, of the American Institute of Biological Sciences and served as secretary of the Systematics Section of the Botanical Society of America.

Dr. Rainer Zangerl, Curator of Fossil Reptiles, and Dr. Robert H. Denison, Curator of Fossil Fishes, attended the meeting in Denver of the Society of Vertebrate Paleontology, of which Curator Denison



PHOTOGRAPH BY
DR. LOUIS O. WILLIAMS

KAPOK TREE
IN
GUATEMALA

BURDENED
WITH
VINES
AND
EPIPHYTES

was re-elected secretary-treasurer and Curator Zangerl was appointed to a committee chairmanship. Curator Denison met in Denver with the Board of Directors of the American Geological Institute and also attended the meetings in New York of the Society for the Study of Evolution and the American Society of Zoologists. Dr. Sharat K. Roy, Chief Curator of Geology, and Bertram G. Woodland, Associate Curator of Petrology, represented the Museum at the International Geological Congress in Copenhagen in August.

Dr. Austin L. Rand, Chief Curator of Zoology, and Emmet R. Blake, Curator of Birds, attended the meeting at the University of Michigan of the American Ornithologists' Union, of which Dr. Rand is first vice-president. Philip Hershkovitz, Curator of Mammals, Dr. Karl Koopman, Assistant Curator, and Miss Sophie Andris, Osteologist, attended the meetings in Tacoma of the American Society of Mammalogists. Rupert L. Wenzel, Curator of Insects, and Henry S. Dybas, Associate Curator, attended the meetings in Milwaukee of the North Central Branch of the Entomological Society of America.

Dr. Alan Solem, Curator of Lower Invertebrates, and Ernest J. Roscoe, Assistant, attended the meetings in Montreal of the American Malacological Union, where Curator Solem was appointed chairman of the finance committee and Dr. Fritz Haas, Curator Emeritus, was elected an Honorary Life Member in recognition of his outstanding contributions to malacological research. D. Dwight Davis, Curator of Vertebrate Anatomy, who continued to serve as a trustee of the American Society of Mammalogy, was elected chairman of the Morphology Section of the American Society of Zoologists at its meeting in New York.

Dr. R. M. Strong, Research Associate in the Division of Anatomy, attended the meetings in New York of the International Congress of Anatomists and the American Association of Anatomists. Miss Lillian A. Ross, Associate Editor of Scientific Publications and Associate in the Division of Insects, attended the Conference of Biological Editors in Cleveland.

Chief Curator Millar attended meetings of the Association of Science Museum Directors as representative of Dr. Clifford C. Gregg, Director, and the annual meeting of the American Association of Museums, both in Boston. Miss Miriam Wood, Chief of Raymond Foundation, who was president of the Midwest Conference of Museums of the American Association of Museums for 1959-60, attended the meeting in Dayton of the Midwest Conference of Museums and the meeting in Boston of the American Association of Museums. Miss Wood was judge of club projects for the Junior Academy of

Sciences of the Illinois Academy of Sciences at the meetings in Urbana. Miss Harriet Smith, of Raymond Foundation staff, attended the Midwest Archaeological Conference at the University of Illinois.

Mrs. Meta P. Howell, Librarian, and Mrs. M. Eileen Rocourt, Associate Librarian, attended the midwinter meeting in Chicago of the American Library Association. Mrs. Rocourt attended the convention in Cleveland of Special Libraries Association as chairman of the Museum Division.

The Fortieth Annual Meeting of the American Society of Ichthyologists and Herpetologists was held at the Museum from June 17 through June 19. The address of welcome at the opening session was given for the Museum by E. Leland Webber, Assistant Director. Dr. Robert F. Inger, Curator of Amphibians and Reptiles, was general chairman of the local committee on arrangements.

Compilers of general reference books and encyclopaedias continue to seek our aid, and in the past year important contributions were made to these publications by members of the Museum's scientific staff. Curator Davis was appointed consulting editor in the field of comparative anatomy for *Encyclopedia of Science and Technology* (McGraw-Hill). Curator Thieret was appointed to the advisory board of *Encyclopaedia Britannica* as advisor in botany to succeed the late Dr. Theodor Just, former Chief Curator of Botany.

Curator Davis was elected managing editor of *Evolution*, official journal of the Society for the Study of Evolution. Dr. Louis O. Williams, who recently joined the staff as Associate Curator of Central American Botany, continued to serve on the editorial board of *Economic Botany*. Other members of our staff who continued to serve in various editorial capacities on scientific journals include Curator Collier, *American Antiquity*; Curator Inger, *Copeia* and *Evolution*; Assistant Curator Rinaldo, *Archives of Archaeology*; Curator Thieret, *Economy Botany*; Assistant Curator Turnbull, *Säugetierkundliche Mitteilungen* (Stuttgart, Germany) and *Society of Vertebrate Paleontology News Bulletin*; and Curator Woods, *The American Midland Naturalist*.

Numerous articles and reviews are contributed by members of the Museum's scientific staff to various learned journals. A list of some of this material in 1960, including books by staff members not published by the Museum but on subjects within the Museum's field of interest and research, begins on page 104.

CO-OPERATION WITH OTHER INSTITUTIONS

Dr. Paul S. Martin, Chief Curator of Anthropology, gave illustrated talks on his field work in Arizona to archaeology clubs at Highland Park and Oak Park-River Forest (Illinois) high schools. Dr. Donald Collier, Curator of South American Archaeology and Ethnology, and George I. Quimby, Curator of North American Archaeology and Ethnology, taught courses at the University of Chicago, Dr. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, presented a seminar, and Dr. Kenneth Starr, Curator of Asiatic Archaeology and Ethnology, gave a lecture. Curator Quimby lectured also at the Chicago Academy of Sciences and at Wayne State University. Phillip H. Lewis, Associate Curator of Primitive Art, lectured to students of the Therapy School of Manteno (Illinois) State Hospital who are being trained to teach the mentally ill.

The course in museology, which is given by the Museum's anthropologists in co-operation with the Department of Anthropology of the University of Chicago, was continued at the Museum. Miss Ann N. Levin, Chicago Natural History Museum Fellow in Anthropology of the University of Chicago for 1959-60, completed a study of the art of the Grassland tribes of the Cameroons, and Miss Mary Hogquist, Museum Fellow for 1960-61, has started a project concerned with physical anthropology.

Dr. Louis O. Williams, Associate Curator of Central American Botany, addressed a botany seminar at the University of Chicago. His subject was "The Highland Flora of Central America."

Dr. Everett C. Olson, Chairman of the Department of Geology at the University of Chicago and Research Associate of the Museum, continued to hold his course in vertebrate paleontology at the Museum. Dr. Rainer Zangerl, Curator of Fossil Reptiles, and Dr. Eugene S. Richardson, Jr., Curator of Fossil Invertebrates, took part in a seminar at Marquette University. Curator Richardson lectured on three occasions at the Chicago Academy of Sciences and Harry E. Changnon, Curator of Exhibits, conducted five geology field-trips for the Chicago Academy of Sciences as part of a sequence of physical-science lectures and field trips for local science teachers and students under the sponsorship of the National Science Foundation. Bertram G. Woodland, Associate Curator of Petrology, gave a radio talk as part of a science series sponsored by the Chicago Board of Education.

A phase of work in our geology laboratories that in recent years has grown to considerable size and importance is the preparation of plaster reproductions of fossil specimens in our study collections

for other museums, colleges, and universities. This year several hundred casts were made and sent to the American Museum of Natural History, Science Museum (St. Paul), Princeton University, University of Ottawa (Canada), University of Illinois, and University of Wisconsin.

Dr. Robert F. Inger, Curator of Amphibians and Reptiles, lectured to a class in comparative anatomy at the University of Chicago. Rupert L. Wenzel, Curator of Insects, taught a course in field zoology at the University of Chicago for the first five weeks of the fall quarter and Henry S. Dybas, Associate Curator, who was appointed Research Associate in the Department of Biology at Northwestern University, lectured before seminars at Northwestern University and Purdue University. Associate Curator Dybas also taught ecology in a high-school-level summer institute of biology at Knox College, a project that was supported by the National Science Foundation along with similar institutes in other parts of the country.

Dr. Alan Solem, Curator of Lower Invertebrates, gave a lecture at the University of Arizona and D. Dwight Davis, Curator of Vertebrate Anatomy, who continued as Lecturer in the Department of Zoology at the University of Chicago, sat on two examination boards. Harry Hoogstraal, Research Associate in the Division of Insects, received the Distinguished Civilian Award of the United States Department of Defense for his research on ticks and tick-borne diseases of man and animals.

Dr. Clifford C. Gregg, Director, was invited to become a member of the Citizens Board of the University of Chicago. Dr. Gregg and John R. Millar, Chief Curator of Botany, in a radio interview on station WCLM (FM) by Edwin Moll titled "Keys to the Three Kingdoms," gave a general exposition of the work of the Museum. Dr. Gregg also described the work of the Museum for the adult education seminar of the University of Chicago that visited the Museum with Dean Cyril Houle.

Universities and colleges whose classes visited the scientific departments of the Museum or otherwise used the Museum's facilities were: Adrian College, Beloit College, University of Chicago, Chicago Teachers College, De Paul University, Drake University, Elmhurst College, Emmanuel Missionary College, Fort Wayne Bible College, Frankfort (Indiana) Pilgrim College, Garrett Biblical Institute, George Williams College, Goshen College, Grace Theological Seminary, Grambling College, University of Illinois (Chicago), Illinois College of Chiropody, Illinois Institute of Technology, Indiana Central College, Indiana University, Iowa State Teachers College, Loyola University, Manchester (Indiana) College, Marquette University,

McMaster University (Canada), Midland College (Nebraska), Midwest Bible College (Missouri), Morton Junior College, National College of Education, North Central College, North Park College, North Texas State College, Northern Illinois University, Northwestern College (Wisconsin), Northwestern University, University of Notre Dame, Pestalozzi-Froebel Teachers College, Rockford College, Roosevelt University, Rosary College, Saint Cloud State College, Saint Joseph College, Saint Mary's College, Shimer College, University of Southern Utah, Valparaiso University, Western Michigan University, Wheaton College, and University of Wisconsin. Miscellaneous groups included students from Monterrey, Mexico, and fifteen anatomists from Moscow, U.S.S.R.

Supervised classes from art schools, including the Chicago Academy of Art, Chicago Academy of Fine Arts, Institute of Design, and School of the Art Institute of Chicago, continued to use the Museum exhibits for classroom work in painting, modeling, and sketching (see page 32). The Chicago Area Science Fair, which is sponsored by the Chicago Teachers Science Association, was held in the Museum on a Saturday in May.

Under the co-operative plan adopted in 1946 by this Museum and Antioch College (Yellow Springs, Ohio) thirteen students were employed in 1960 by the Museum in its scientific departments and General Library. Names of these young men and women are listed in appropriate places in this Report.

Organizations that used the facilities of the Museum for their regular meetings or lectures include Illinois Audubon Society, Nature Camera Club of Chicago, Kennicott Club, and Illinois Orchid Society. Chamber-music concerts in James Simpson Theatre under the auspices of the Free Concerts Foundation continued.

During the summer the Director of the Museum, as part of an extended trip in Europe, visited a number of museums and zoological gardens, returning, in many instances, visits made to this Museum by scientists or officers of those institutions. His itinerary included Bremen, Amsterdam, Antwerp, Waterloo, Brussels, Tervuren, Geneva, Basel, and Nuremberg.

A number of museum administrators visited this Museum during the year especially to study our methods. Dr. John W. Evans, Director of the Australian Museum at Sydney, visited the Museum under a grant from the United Nations Educational, Scientific, and Cultural Organization in connection with his study of museum organization, display preparation and techniques, and educational features. J. A. Rafferty, member of Parliament of Australia, included the Museum on his world trip to study museum construction and admin-

istration. Dr. Harald Seiler, Director of the City Museum of Wuppertal, Germany, came to seek material for his book on museum problems, including techniques, construction, illumination, conservation, ventilation, and care of collections. Leo Heuwing, Director of Deutsches Museum in Munich, visited the Museum when he was in Chicago as guest of the Chicago Museum of Science and Industry.

Many other scientists visited the four scientific departments of the Museum during the year, some of them to consult the study collections or to use the laboratories and workrooms. The following list (which does not include our many welcome visitors from the Chicago area) is, of course, incomplete.

Visiting anthropologists included Dr. Pedro Armillas, Dr. James B. Griffin, and Dr. William B. Trousdale, University of Michigan; Dr. Roman Pina Chan, Instituto Nacional de Antropología e Historia (Mexico); Chang Hsüan and Chow Fang, Metropolitan Museum of Art; Dr. Chiang Fu-tsung, National Central Library (Taiwan); Dr. Michael Coe, Yale University; Dr. Jose M. Cruxent, Museo de Ciencias Naturales (Venezuela); Barbro Dahlgren-Jordan, Museo Nacional de Antropología (Mexico); Dr. Edward B. Danson, Museum of Northern Arizona; Dr. Phillip J. C. Dark, Southern Illinois University; Dr. Frederick Dockstader, Museum of the American Indian; Fernando Garcia Esteban, Centro de Arte (Uruguay); Professor Jean Guiart, University of Paris (Sorbonne); Janvier L. Hamell, University of Pennsylvania; and

Dr. Jorge Iribarren, Museo de Arqueología (Chile); Professor Jesse D. Jennings, University of Utah; Dr. Richard S. MacNeish, National Museum of Canada; Professor Shinji Maejima, Keio University (Tokyo); Professor Mao Tzu-shui, National Taiwan University; Josea Mapondera, Rhodes National Gallery (Southern Rhodesia); Dr. William Mayer-Oakes, University of Oklahoma; Dr. Rene Millon, University of California; Dr. H. Müller-Beck, Bernisches Historisches Museum (Switzerland); Dr. Robert W. Newman, Missouri Basin Archaeological Project; Dr. Robert Ritzenthaler, Milwaukee Public Museum; E. B. Sayles, Arizona State Museum; Professor Sosuki Sugihara, Meiji University (Tokyo); Dr. Albert C. Spaulding, National Science Foundation; Dr. Alexander Spoehr, Bernice P. Bishop Museum; Dr. Naotune Watanabe, University of Tokyo; and Dr. Gordon R. Willey, Peabody Museum (Harvard University).

Visiting botanists included Dr. Carolyn K. Allen, New York Botanical Garden; John Beaman and William Overlease, Michigan State University; Dr. Maria Buchinger, Dirección de Investigaciones Forestales (Argentina); Dr. Richard S. Cowan, Dr. Lyman B. Smith,



HAND-PUPPETS
FROM
TAIWAN
(CHINA)

PROBABLY
19TH CENTURY

and Dr. William L. Stern, United States National Museum; Gerald Feldner and Dr. Mildred E. Mathias, University of California at Los Angeles; Professor J. M. Gillette, Plant Research Institute (Canada); Dr. Howard Hyland, Plant Industry Station (Maryland); A. Keating, University of Cincinnati; Dr. Job Kuijt, University of British Columbia; Professor Donald Larson, University of Houston; Dr. Cyrus L. Lundell, Texas Research Foundation; Mrs. Julia F. Morton, University of Miami (Florida); Dr. John Papaioannoe, University of Thessaloniki (Greece); Dr. Marcel Raymond, Jardin Botanique de Montreal; Robert Rodin, California Institute of Technology; Paul J. Sage, Indiana University; Richard Smiley, Carleton College; Dr. Oscar Tobar, Museo de Historia Natural (Peru); Dr. Ruth Walker, University of Wisconsin (Milwaukee); Dr. Grady Webster, Purdue University; Dr. R. L. Wilbur, Duke University; and Llewelyn Williams, Randolph, Wisconsin.

Visiting geologists included Dr. Richard J. Anderson, Berkeley Heights, New York; Dr. Walter Auffenberg, Boulder, Colorado; Dr. Robert S. Bader, University of Illinois; Dr. John Clark, South Dakota School of Mines; Dr. C. Barry Cox, King's College (London); John Dallman and Dr. William G. Reeder, University of Wisconsin; Dr. Albert R. Dawe and Dr. Louis S. Kornicker, Office of Naval Research (Chicago); Dr. Mary Dawson, Smith College; Dr. A. Gordon Edmund, Royal Ontario Museum; Dr. Mona Edwards, British Museum (Natural History); Bruce Erickson, Science Museum (St. Paul); Dr. R. C. Gutschick and Dr. Archie MacAlpin, University of Notre Dame; Dr. Marjorie Hooker, Dr. Richard L. Konizeski, and Dr. Alfred Pommer, United States Geological Survey; Dr. George Jakway, University of Nebraska State Museum; and

Irving C. Johnson, El Monte, California; Dr. Wann Langston, Jr., National Museum of Canada; Dr. A. Lee McAlester and Dr. Karl Waagé, Yale Peabody Museum; Dr. Josué Camargo Mendes, University of São Paulo (Brazil); Richard Neavel, Indiana Geological Survey; Franklin L. Pearch and Dr. Alexander Wetmore, United States National Museum; Dr. Frank H. T. Rhodes, University College (Wales); Dr. Alfred S. Romer, Museum of Comparative Zoology; Dr. Paul Sartenser, Institut Royal des Sciences Naturelles (Brussels); Dr. Bobb Schaeffer and Walter C. Sorensen, American Museum of Natural History; Dr. Robert E. Sloan, University of Minnesota; and Howard Stains, Southern Illinois University.

Visiting zoologists included Dr. Thomas H. G. Aitken, Trinidad Regional Virus Laboratory; Dr. Sydney Anderson, Peter S. Chrapliwy, and Robert G. Webb, University of Kansas; Dr. Manawel Araiche, University of Rochester School of Medicine; John H. Ard-

ley, Bubia Agricultural Station (New Guinea); Dr. Paul H. Arnaud and Dr. Alan Leviton, California Academy of Sciences; Dr. Walter Auffenberg and Dr. T. Paul Maslin, University of Colorado; Dr. Paul Basch, Emporia State Teachers College; George A. Bates, London; Dr. Charles O. Bechtol (Medical Center), Dr. Nicholas E. Collias, and Dr. Boyd W. Walker, University of California at Los Angeles; Dr. Joseph Bequaert and Dr. Giles W. Mead, Harvard College; Mr. and Mrs. Cristopher Billups, Lawrenceburg, Indiana; Laurence C. Binford, Louisiana State University; and

Dr. Charles M. Bogert, Dr. Albert E. Parr, and Dr. and Mrs. Charles Vaurie, American Museum of Natural History; Dr. James E. Böhlke, Academy of Natural Sciences of Philadelphia; Rudyard Boulton, Atlantica Foundation (Southern Rhodesia); Arden Brame and Dr. Arnold Kluge, University of Southern California; Dr. Walter Brown, Warren Freihof, and Dr. and Mrs. George Myers, Stanford University; Harvey R. Bullis, Jr., Norman Pease, and Dr. Daniel M. Cohen, United States Fish and Wildlife Service; Dr. Emmet T. Hooper, Dr. Robert R. Miller, Dr. John B. Burch, D. F. Owen, Richard Parker, and Dr. Charles Walker, University of Michigan; Mr. and Mrs. Emery P. Chace, San Diego Society of Natural History; M. Cole, Bo School (Africa); Mr. and Mrs. Melvin Cornfield, New York; Dr. E. J. Crossman, Dr. A. Gordon Edmund, and Dr. W. B. Scott, Royal Ontario Museum; Dr. Reznat M. Darnell, Marquette University; James R. Dixon, Agricultural and Mechanical College of Texas; Dr. Herndon Dowling, New York Zoological Park; Dr. Carl J. Drake, Dr. Carter R. Gilbert, Dr. Ernest Lachner, and Dr. Alexander Wetmore, United States National Museum; Frederick R. Fechner, Rockford, Illinois; Dr. M. J. Fouquette, University of Florida; Dr. John W. Gehringer, United States Bureau of Commercial Fisheries; and

Dr. N. Ghaffary, University of Teheran (Iran); Dr. Robert H. Gibbs, Jr., Boston University; Bruce Hayward, University of Arizona; Dr. Johann Gerhard Helmcke, Berlin; Donald Herold (Director), Davenport Science Museum; James Huheey, Miss Wilma Lehmann, Dr. Richard B. Selander, and Dr. Joseph Tihen, University of Illinois; Dr. David L. Jameson, San Diego State University; Dr. Siro Kawaguti, Okayama University (Japan); Dr. M. L. Keith, Pennsylvania State University; Dr. David H. Kistner, Chico State College; Dr. John M. Legler, University of Utah; Kim Hing Liem, Universitas Indonesia; Dr. T. H. Manning, Ottawa; and

Dr. Romeo Mansueti, Chesapeake Biological Laboratory; Stuart Marks, North Carolina State College; Walter McIlhenny, Avery Island, Louisiana; Dr. A. E. W. Miles, London; Dr. George A. Moore,

Oklahoma State University; Miss Setsuoka Nakata, Bernice P. Bishop Museum; Henry Le Nestour, Paris; Brother G. Nicholas and E. Winkler, University of Notre Dame; Miss Peggy Nicklin, Trenton; Dr. James A. Peters, San Fernando Valley State College; John Porter, University of New Mexico; Dr. Frank W. Preston, Butler, Pennsylvania; Dr. Manning A. Price, Texas Agricultural Experiment Station; Dr. Gerbert Rebell, New Brunswick, New Jersey; and

Dr. Neil Richmond, Carnegie Museum; Dr. C. Richard Robins, University of Miami (Florida); Dr. Herbert H. Ross and Dr. Milton W. Sanderson, Illinois State Natural History Survey; Douglas A. Rossman, Southern Illinois University; Dr. Janis A. Roze, Universidad Central (Venezuela); Dr. Reece I. Sailer, Beltsville, Maryland; Gilberto Silva-Taboada, Havana; Royal D. Suttikus, Tulane University of Louisiana; Dr. Vadim D. Vladikov, University of Ottawa (Canada); Miss Jane Walker, South African Veterinary Research Organization (Nairobi, Kenya); Harlan Walley, Sandwich, Illinois; and Jay Webber, Miami, Florida.

Widely known visitors to the Museum were Sir Edmund Hillary, leader of the World Book Encyclopedia Scientific Expedition to the Himalayas (see page 24), Desmond Doig, its official reporter, and Kumja Chumji, the Sherpa villager, who brought the "yeti scalp" to the Museum where the first correct identification of the object was made by the Division of Mammals. Marlin Perkins, Director of Lincoln Park Zoo (Chicago), who was a member of the World Book Expedition, accompanied the group to the Museum.



AZTEC
RAIN GOD

HALL 8

PUBLIC RELATIONS

The death early in the year of Horace B. Harte, Public Relations Counsel, called for immediate emergency-plans to continue the work of the Division of Public Relations. Miss Marilyn Jindrich, who was promoted to Associate in Public Relations, worked alone and kept the Division of Public Relations functioning throughout the very difficult period of readjustment. Mrs. Paula R. Nelson joined the staff in May as Public Relations Counsel.

The list of publicity outlets for Museum materials was carefully checked and revised to make certain that information about the Museum would reach the public through selected newspapers, magazines, and radio and television programs. The report of the discovery by the Museum's Southwest Archaeological Expedition of a six-hundred-year-old sacred image of sandstone was given wide circulation and first came to the attention of the Director of the Museum in a copy of the Paris edition of the *New York Herald Tribune* in Brussels. Installation and successful operation of Soundtrek, the Museum's radio-guide system, was featured on Jack Mabley's program on radio station WBBM.

The format of the Museum's monthly *Bulletin* was changed in the hope of making it more attractive and most easily read. As in former years, many stories from the *Bulletin* found their way into the columns of the daily press, often through syndicated stories with nation-wide circulation.

An important aspect of the work of the Division of Public Relations is personal service to representatives of organizations, the communications media, and the general public. Information for house organs and conventions and for other distribution is always available and promptly supplied to those having needs for it.

The Museum wishes especially to express its gratitude to the *Chicago Tribune*, *Chicago Sun-Times*, *Chicago Daily News*, and *Chicago's American* for constant interest in the Museum and ready willingness to present its story to readers. Our thanks also go to the radio and television stations of greater Chicago that so often made their air channels available both for special features and for spot announcements. The service of the press, radio, and television has done much to bring the public into contact with the educational opportunities sponsored by the Museum. We also thank the Chicago and North Western Railway, Chicago Transit Authority, and Illinois Central System for displaying without charge in their local stations placards advertising lectures and other Museum events, a courtesy that has continued for many years.

MOTION PICTURES

An important contribution to education in American Indian archaeology is the new film "A Sauk Village Site," which has been produced jointly by the Museum and the Department of Anthropology of the University of Illinois.

"Through These Doors," the film that depicts Museum activities, was in constant use during the year, being sent out as in previous years on a free-loan basis to social and educational organizations. Because of the increasing number of requests, two additional prints were purchased, making a total of eight prints of the film now available. All photography for a new film showing Museum activities was completed and awaits script preparation.

General inspection, cleaning, and repairing of film in the Museum's Film Library were accomplished on the usual twice-a-year basis. Cataloguing and accessioning film subjects, which now number 104 complete productions, were finished.

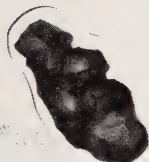
PHOTOGRAPHY AND ILLUSTRATION

The problem in the Division of Photography during the past year has been to keep up with the tremendous amount of work without sacrificing quality. A partial solution was achieved by the addition to the staff of Kurt Bogen, Assistant, who has confined his efforts to printing so that John Bayalis, Photographer, and Homer V. Holdren, Assistant, could devote the time necessary to production of the Museum photographs that have been lauded so widely for their fine quality. The increasing work resulted partially from the death of J. S. Daston, Assistant in Botany, who had been handling photographs of botanical type-specimens.

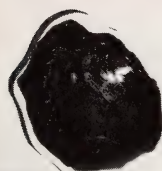
Production for the year of negatives, prints, enlargements, transparencies, and slides by the Division of Photography totaled 30,126 items. Miss Mary Creed capably cared for prints and negatives, checking, numbering, and filing a total of 126,241 items.

A memorandum from E. John Pfiffner, Staff Artist, describes the year in the Division of Illustration as "routine but pleasant." Nevertheless he and Miss Marion Pahl, Staff Illustrator, performed ably in producing illustrations, posters, exhibit layouts, and other specialized assignments. Considerably more work was brought to the Division of Illustration by the change in format of the Museum *Bulletin*. Planning also was required in connection with exhibition programs that will materialize in succeeding years.

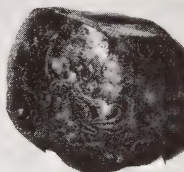
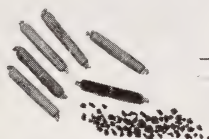
NATURAL RESINS



HARD RESINS



SANDARAC
GROWING ON THE TRUNK OF THE
PINE TREE, IT IS USED TO
PRODUCE THE RESIN OF THE
PINE TREE.



PART OF
NEW EXHIBIT

HALL 28

THE BOOK SHOP

It should be remembered that the Book Shop was founded to extend the educational outreach of the Museum rather than as a medium to produce income. Thus of highest importance in the record of the year are the sale of publications written by Museum staff members and the distribution of color-transparencies of our educational exhibits that combine the ideas of Museum scientists and the technical skills of Museum artists and preparators. Total sales for the year were \$183,636.15. Although over-the-counter sales increased, sales by mail decreased, resulting in a small decrease in total sales. Museum Storybooks, written by members of Raymond Foundation staff, continued to be popular with the children, and 17,366 copies were sold (10 new titles were published during the year, see page 101). Sales of educational color-transparencies of Museum exhibits increased to a total of 15,712 units.

PUBLICATIONS AND PRINTING

Distribution of Museum publications in 1960 continued the generally upward trend that has been evident in recent years. Publications shipped without charge under existing exchange relations with other institutions and individuals totaled 23,690 copies. Sales of 65,425 copies were considerably higher than in any previous year. Additional help was not required to handle this increase in work primarily because of the loyal and co-operative efforts of Raymond A. N. Gomes and Miss Hilda Nordland.

During the year the Museum issued 27 publications in its scientific series and 1 in its Memoirs series, 1 annual report, 1 guidebook, 1 handbook, 14 Museum Storybooks (4 reprints), and 1 index. Of these, copies printed by the Museum Press totaled 44,213 from 1,884 pages of type composition. Twelve issues of *Chicago Natural History Museum Bulletin* were printed, averaging 8,351 copies an issue. In addition there were posters, price lists, lecture schedules, invitations, announcements, and looseleaf Museum Stories (Raymond Foundation), totaling 818,700 impressions.

Indian Art of the Americas (64 pages, 65 illustrations, paper-bound), a catalogue by Dr. Donald Collier, Curator of South American Archaeology and Ethnology (see Annual Report 1959, page 51), was selected by the Chicago Book Clinic as a Top Honor Book for display in its Eleventh [1960] Annual Exhibition of Chicago and Midwestern Bookmaking.

MUSEUM PUBLICATIONS IN 1960

DEPARTMENT OF ANTHROPOLOGY

FORCE, ROLAND W.

Leadership and Cultural Change in Palau, Fieldiana: Anthropology, volume 50, 211 pages, 31 illustrations, 1 map

MARTIN, PAUL S., and JOHN B. RINALDO

Excavations in the Upper Little Colorado Drainage, Eastern Arizona, Fieldiana: Anthropology, volume 51, number 1, 129 pages, 61 illustrations, 1 map

Table Rock Pueblo, Arizona, Fieldiana: Anthropology, volume 51, number 2, 172 pages, 91 illustrations, 1 map

DEPARTMENT OF BOTANY

MACBRIDE, J. FRANCIS

Flora of Peru, Botanical Series, volume 13, part 1, number 2, 100 pages

Flora of Peru, Botanical Series, volume 13, part 5, number 2, 319 pages

SCHWEINFURTH, CHARLES

Orchids of Peru, Fieldiana: Botany, volume 30, number 3, 262 pages, 58 illustrations

SMITH, C. EARLE, JR.

A Revision of Cedrela (Meliaceae), Fieldiana: Botany, volume 29, number 5, 62 pages, 15 illustrations

DEPARTMENT OF GEOLOGY

CARMAN, J. ERNEST

The Stratigraphy of the Devonian Holland Quarry Shale of Ohio, Fieldiana: Geology, volume 14, number 1, 5 pages, 1 illustration

DENISON, ROBERT H.

Fishes of the Devonian Holland Quarry Shale of Ohio, Fieldiana: Geology, volume 11, number 10, 61 pages, 33 illustrations

REEDER, WILLIAM G.

Two New Rodent Genera from the Oligocene White River Formation (Family Heteromyidae), Fieldiana: Geology, volume 10, number 35, 14 pages, 7 illustrations, 2 tables

TURNBULL, WILLIAM D.

A Lance Didelphid Molar, With Comments on the Problems of the Lance Therians, Fieldiana: Geology, volume 10, number 36, 13 pages, 2 illustrations

TURNBULL, WILLIAM D., and CHARLES A. REED

Arctoryctes and Some Other Chadronian Vertebrate Microfossils from Nebraska, Fieldiana: Geology, volume 14, number 3, 17 pages, 6 illustrations

ZANGERL, RAINER, and ROBERT E. SLOAN

A New Specimen of Desmatochelys lowi Williston, A Primitive Cheloniid Sea Turtle from the Cretaceous of South Dakota, Fieldiana: Geology, volume 14, number 2, 36 pages, 24 illustrations

ZANGERL, RAINER, and WANN LANGSTON, JR.

The Vertebrate Fauna of the Selma Formation of Alabama. Part V, An Advanced Cheloniid Sea Turtle. Part VI, The Dinosaurs, Fieldiana: Geology Memoirs, volume 3, numbers 5 and 6, 95 pages, 44 illustrations

MUSEUM PUBLICATIONS IN 1960

DEPARTMENT OF ZOOLOGY

CASTLE, P. H. J.

Two Eels of the Genus Synaphobranchus from the Gulf of Mexico, Fieldiana: Zoology, volume 39, number 35, 12 pages, 2 illustrations

DELFINADO, MERCEDES D.

Philippine Zoological Expedition 1946-1947: On Some Parasitic Laelaptoid Mites (Acarina) of the Philippines, Fieldiana: Zoology, volume 42, number 8, 22 pages, 17 illustrations

DYBAS, HENRY S.

A New Genus of Blind Beetles from a Cave in South Africa, Fieldiana: Zoology, volume 39, number 36, 7 pages, 2 illustrations

GREY, MARION

Sonoda paucilampa, A New Conostomatid Fish from the Western Atlantic, Fieldiana: Zoology, volume 39, number 42, 7 pages, 1 illustration

INGER, ROBERT F.

A Review of the Oriental Toads of the Genus Ansonia Stoliczka, Fieldiana: Zoology, volume 39, number 43, 31 pages, 11 illustrations

Notes on Toads of the Genus Pelophryne, Fieldiana: Zoology, volume 39, number 39, 4 pages, 1 illustration

MARX, HYMEN

A New Colubrid Snake of the Genus Atractus, Fieldiana: Zoology, volume 39, number 38, 3 pages, 1 illustration

A New Iguanid Lizard of the Genus Ctenoblepharis, Fieldiana: Zoology, volume 39, number 37, 3 pages, 1 illustration

RAND, AUSTIN L.

A New Species of Babbling Thrush from the Philippines, Fieldiana: Zoology, volume 39, number 33, 2 pages

RAND, AUSTIN L., AND DIOSCORO S. RABOR

Birds of the Philippine Islands: Siquijor, Mount Malindang, Bohol, and Samar, Fieldiana: Zoology, volume 35, number 7, 221 pages

SMITH, ELLEN THORNE

Review of Pionus Maximiliani (Kuhl), Fieldiana: Zoology, volume 39, number 34, 7 pages, 1 map

VOSS, GILBERT L.

Bermudan Cephalopods, Fieldiana: Zoology, volume 39, number 40, 28 pages, 3 illustrations

WENZEL, RUPERT L.

Three New Histerid Beetles from the Pacific Northwest, with Records and Synonymies of Additional Species (Coleoptera: Histeridae), Fieldiana: Zoology, volume 39, number 41, 17 pages, 3 illustrations, 1 map

WIRTH, W. W., AND A. A. HUBERT

Philippine Zoological Expedition 1947-1947: Camptopterohelea, A New Genus of Ceratopogonidae from the Philippines (Diptera), Fieldiana: Zoology, volume 42, number 7, 3 pages, 1 illustration

MUSEUM PUBLICATIONS IN 1960

JAMES NELSON AND ANNA LOUISE RAYMOND FOUNDATION

ANDRE, MARYL

Bible Animals, Museum Storybook (9 Museum Stories), 21 pages, 9 illustrations, paperbound (second printing)

BUCHWALD, JUNE

Life in the South American Jungle, Museum Storybook (9 Museum Stories), 21 pages, 11 illustrations, paperbound

[CRAMER, ROBERTA, AND OTHERS]

Indians of Early Chicago, Museum Storybook (8 Museum Stories), 20 pages, 9 illustrations, paperbound (third edition)

FLEMING, EDITH

Africa and Its People, Museum Storybook (9 Museum Stories), 21 pages, 10 illustrations, paperbound (second printing)

From Cave Man to City Dweller, Museum Storybook (9 Museum Stories), 21 pages, 9 illustrations, paperbound

The Chao Family of China, Museum Storybook (9 Museum Stories), 22 pages, 9 illustrations, 1 map, paperbound

SHARPE, JANE, AND LORAIN STEPHENS

Mythical Animals, Museum Storybook (9 Museum Stories), 21 pages, 9 illustrations, paperbound

SMITH, HARRIET

Holiday in Ancient Egypt, Museum Storybook (9 Museum Stories), 22 pages, 9 illustrations, 1 map, paperbound

Indian Neighbors, Museum Storybook (9 Museum Stories), 22 pages, 8 illustrations, 1 map, paperbound

[SMITH, HARRIET, AND OTHERS]

Nature Magic, Museum Storybook (8 Museum Stories), 20 pages, 8 illustrations, paperbound

SVOBODA, MARIE

Bible Plants, Museum Storybook (9 Museum Stories), 21 pages, 9 illustrations, paperbound

WEAVER, DOLLA COX

Days of the Dinosaurs, Museum Storybook (8 Museum Stories), 20 pages, 8 illustrations, 1 chart, paperbound (second printing)

WOOD, MIRIAM, AND MARIE SVOBODA

Plant Adventurers, Museum Storybook (9 Museum Stories), 21 pages, 10 illustrations, paperbound

[WORSHAM, NANCY, AND OTHERS]

Life in the Polar Regions, Museum Storybook (9 Museum Stories), 21 pages, 10 illustrations, paperbound

OTHER MUSEUM PUBLICATIONS

General Guide, Chicago Natural History Museum, 48 pages, 32 illustrations, floor plans, map (thirty-ninth edition)

Report of the Director to the Board of Trustees for the Year 1959, 178 pages, 26 illustrations

Through the Halls, Chicago Natural History Museum, 39 pages, 36 illustrations in color

MUSEUM PUBLICATIONS IN 1960

CHICAGO NATURAL HISTORY MUSEUM BULLETIN

Chicago Natural History Museum Bulletin, volume 31 (1960), 12 numbers, 96 pages, illustrated

THE FOLLOWING ARTICLES AND REVIEWS BY STAFF MEMBERS OF CHICAGO NATURAL HISTORY MUSEUM ARE PRINTED IN VOLUME 31 OF THE BULLETIN:

COLLIER, DONALD

"Alfred Lewis Kroeber, 1876-1960," no. 11, p. 8

"Aztec Sculpture," no. 6, pp. 4-5, 15 illustrations (also 2 illustrations on page 2 and cover picture)

FLEMING, ROBERT L.

"Something New in Calendars—Nepal's Unusual Year," no. 3, pp. 3, 7, 1 illustration

FORCE, ROLAND W.

"Discovery of the Pacific Isles: 'Blackbirding' and the Decline of Island Cultures" [part 5], no. 5, pp. 4-5, 1 illustration

"Discovery of the Pacific Isles: It All Started with Spice and Ended with Science" [part 3], no. 3, pp. 4-5, 1 illustration

"Discovery of the Pacific Isles: The Missionaries Create a Psalm Book Civilization" [part 4], no. 4, pages 3-4, 1 illustration

"South Sea Isles: Discovery Not all Accolades and Fame" [part 2], no. 2, pp. 3, 7-8, 1 illustration

"South Sea Isles: What Led to Early Discoveries" [part 1], no. 1, pp. 3, 8

Review of *Vikings of the Pacific* (by Peter H. Buck), no. 5, p. 6, 1 illustration

HERSHKOVITZ, PHILIP

"Supposed Ape-man or 'Missing Link' of South America," no. 4, pp. 6-7, 1 illustration

Review of *The Mammals of North America* (by E. Raymond Hall and Keith R. Kelson), no. 5, pp. 6-7, 1 illustration

INGER, ROBERT F.

"Dead on Road," no. 7, pp. 4-5, 1 cartoon

JINDRICH, MARILYN

"Invaders, Beware!" no. 7, pp. 3, 8, 4 illustrations (and cover picture)

"'The Voices of Youth'—Letters Appraise the Museum," no. 2, p. 6, 1 cartoon

MACMINN, HELEN A.

"Named Top Honor Book," no. 5, p. 2

NELSON, PAULA R.

"The Great Cave of Niah," no. 9, pp. 4-5, 7, 3 illustrations

"When Encyclopedias Ask the Experts," no. 8, pp. 6-8, 1 illustration

QUIMBY, GEORGE I.

"Burial Yields Clues to Red Ocher Culture," no. 2, p. 5, 1 illustration

RAND, AUSTIN L.

"A Nature Calendar for 1960," no. 1, pp. 4-5, 12 illustrations

Review of *A List of Common and Scientific Names of Fishes from the United States and Canada* (by Reeve M. Bailey and others), no. 8, p. 3, 1 cartoon

Review of *Natural History of New York City* (by John Kieran), no. 5, p. 8

Review of *The Tale of a Meadow* (by Henry B. Kane), no. 5, p. 6

MUSEUM PUBLICATIONS IN 1960
THE MUSEUM BULLETIN (CONTINUED)

ROSCOE, ERNEST J.

"A 'Case' of Mistaken Identity," no. 9, pp. 3, 8, 5 illustrations

"A Snail's Pace," no. 11, p. 3, 1 cartoon

SMITH, C. EARLE, JR.

"Birnam Wood Comes to Dunsinane," no. 8, pp. 4-5, 16 illustrations

SOLEM, ALAN

"Hidden Relics of the Ocean Deepes," no. 10, pp. 6-7, 1 illustration

"Museum Receives Gift of Lifelong Hobby," no. 3, p. 8

"Rocks, Snails, and Cactus Spines," no. 6, pp. 3, 8, 3 illustrations

"Some Specimen Labels Tell Odd Stories," no. 2, p. 7

STARR, KENNETH

"Chinese Art and Christmas," no. 12, p. 3, 2 illustrations (and cover picture)

THIERET, JOHN W.

"Frankincense and Myrrh," no. 12, pp. 6-8, 2 illustrations

TRAYLOR, MELVIN A., JR.

"Parrots," no. 10, pp. 4-5, illustrated

"The Museum's Newest Exhibit," no. 7, pp. 6-7, 1 illustration

WILLIAMS, LOUIS O.

"Christmas in Honduras," no. 12, pp. 4-5, 3 illustrations

WOODLAND, BERTRAM G.

Review of *The Chemical Elements* (by Helen Miles Davis), no. 5, p. 7

WOODS, LOREN P.

"Nature Gave This Strange Fish Built-in Bifocals," no. 1, pp. 6-7, 4 illustrations

"The Alewife," number 11, pp. 6-8, 4 illustrations, 1 map



AZTEC
GODDESS

HALL 8

OTHER PUBLICATIONS OF STAFF MEMBERS IN 1960

DEPARTMENT OF ANTHROPOLOGY

COLLIER, DONALD

"Pottery Stamping and Molding on the North Coast of Peru," in *Proceedings of the 33rd International Congress of Americanists* [San José, Costa Rica], vol. 2, pp. 424-431

Review of *Maya Hieroglyphic Writing* (2nd edition) (by J. Eric S. Thompson), in *American Antiquity*, vol. 26, no. 1, p. 128

FORCE, ROLAND W.

Review of *Archaeological Excavations in Yap* (by E. W. and D. S. Gifford), in *American Anthropologist*, vol. 62, no. 6, p. 1106

MARTIN, PAUL S.

Review of *Excavations at Nantack Village, Point of Pines, Arizona* (by David A. Breternitz), in *American Anthropologist*, vol. 62, no. 5, pp. 914-915

QUIMBY, GEORGE I.

"Habitat, Culture, and Archaeology," in *Essays in the Science of Culture in Honor of Leslie A. White* (edited by Gertrude E. Dole and Robert L. Carneiro) [Thomas Y. Crowell Company, New York], pp. 380-389

Indian Life in the Upper Great Lakes, 11,000 B.C. to A.D. 1800, xv + 182 pages, 77 maps and illustrations [The University of Chicago Press]

"Rates of Culture Change in Archaeology," *American Antiquity*, vol. 25, no. 3, pp. 416-417

Review of *Birdstones of the North American Indian* (by Earl C. Townsend, Jr.), in *American Antiquity*, vol. 25, no. 3, p. 430

RINALDO, JOHN B.

Review of *Excavations at Nantack Village, Point of Pines, Arizona* (by David A. Breternitz), in *American Antiquity*, vol. 26, no. 2, pp. 297-298

DEPARTMENT OF BOTANY

GIBSON, DOROTHY

"Late Negative Geotropism in *Chelone*," *Rhodora*, vol. 62, no. 738, p. 173

JUST, THEODOR

"A Bibliography of American Paleobotany, 1952-1957," *Lloydia*, vol. 22, no. 4, pp. 247-294

"The Flower," in McGraw-Hill *Encyclopedia of Science and Technology* (1960), pp. 326-334

SHERFF, EARL E.

"Some Dicotyledonous Plants Recently Collected in the Hawaiian Islands," *Brittonia*, vol. 12, pp. 170-175

THIERET, JOHN W.

"*Calamovilfa longifolia* and Its Variety *magna*," in *American Midland Naturalist*, vol. 63, no. 1, pp. 169-176

"The Formaldehyde Method of Collecting Plant Specimens," *Turtlox News*, vol. 38, no. 4, pp. 114-115 [with Robert J. Reich]

Review of *Flora of Alberta* (by E. H. Moss), in *American Midland Naturalist*, vol. 63, no. 2, pp. 510-511

Review of *The Wealth of India—A Dictionary of Indian Raw Materials and Industrial Products, Volume 5 (Raw Materials): H-K*, in *Economic Botany*, vol. 14, no. 2, p. 159

OTHER PUBLICATIONS OF STAFF MEMBERS IN 1960

WILLIAMS, LOUIS O.

"Cloves," *Qualitas Plantarum et Material Vegetabiles*, vol. 7, no. 4, p. 384
Drug and Condiment Plants, Agricultural Handbook No. 172 [United States Department of Agriculture], 37 pages

"Ucuuba and Related Waxlike Vegetable Tallows," *Qualitas Plantarum et Material Vegetabiles*, vol. 8, no. 3, pp. 295-296

Review of *Food Plants of the South Sea Islands* (by Jacques Barreau), in *Economic Botany*, vol. 14, no. 2, p. 170

Review of *Subsistence Agriculture in Melanesia* (by Jacques Barreau), in *Economic Botany*, vol. 14, no. 2, p. 167

DEPARTMENT OF GEOLOGY

DENISON, ROBERT H.

"Feeding Mechanisms of Agnatha, Acanthodii and Placodermi," *The Anatomical Record*, vol. 138, no. 3, pp. 342-343

OLSEN, EDWARD J.

"An Attempt to Synthesize Graphite by the Disassociation of Carbon Dioxide," *Geochimica et Cosmochimica Acta*, vol. 19, 1960, pp. 147-148

ROY, SHARAT K.

A New Phosphate Mineral from the Springwater Pallasite [The University of Chicago, The Enrico Fermi Institute for Nuclear Studies], 20 pages, 5 illustrations

DEPARTMENT OF ZOOLOGY

BLAKE, EMMET R.

"A Substitute Name for *Crypturellus strigosus peruviana*," *The Auk*, vol. 77, p. 92

DAVIS, D. DWIGHT

"The Feeding Mechanism in Mammals" (abstract), *Anatomical Record*, vol. 138, p. 342

"The Naturalist in the Tropics Today," *Proceedings of the Centenary and Bicentenary Congress of Biology* (1958) [Singapore], pp. 156-160

"The Proper Goal of Comparative Anatomy," *Proceedings of the Centennial and Bicentenary Congress of Biology* (1958) [Singapore], pp. 44-45

Review of *A Laboratory Manual of Cryptobranchus alleganiensis Daudin* (by Hazel Elisabeth Branch), in *Copeia*, 1960, p. 163

GREY, MARION

"A Preliminary Review of the Family Gonostomatidae, With a Key to the Genera and the Description of a New Species from the Tropical Pacific," *Bulletin of the Museum of Comparative Zoology*, vol. 122, no. 2, pp. 57-125, 3 illustrations

"Description of a Western Atlantic Specimen of *Scombrorabrax heterolepis* Roule and Notes on Fishes of the Family Gempylidae," *Copeia*, 1960, no. 3, pp. 210-215, 3 illustrations

HAAS, FRITZ

"Caribbean Land Molluscs: Vertiginidae," *Studies of the Fauna of Curaçao and other Caribbean Islands*, vol. 10, pp. 1-17, 7 illustrations

"Non-marine Mollusks from British Honduras," *Nautilus*, vol. 73, no. 4, pp. 129-131, 16 illustrations [with Alan Solem]

OTHER PUBLICATIONS OF STAFF MEMBERS IN 1960

HERSHKOVITZ, PHILIP

"Mammals of Northern Colombia, Preliminary Report No. 8: Arboreal Rice Rats, A Systematic Revision of the Subgenus *Oecomys*, Genus *Oryzomys*," *Proceedings of the United States National Museum*, vol. 110, pp. 513-568, 18 illustrations

"Publication Dates for Names of the Anubis Baboon," *Journal of Mammalogy*, vol. 41, pp. 402-403

INGER, ROBERT F.

"A Review of the Agamid Lizards of the Genus *Phoxophrys* Hubrecht," *Copeia*, 1960, no. 3, pp. 221-225

NELSON, EDWARD M.

"The Morphological Relationships of the Lateral-line Nerve in Certain 'Electric Fishes,'" *Copeia*, 1960, no. 2, pp. 130-133, 4 illustrations

RAND, AUSTIN L.

"Family Laniidae, Family Vangidae," in *Check-list of Birds of the World* [Museum of Comparative Zoology, Harvard University], vol. 9, pp. 309-369

"Family Pycnonotidae," in *Check-list of Birds of the World* [Museum of Comparative Zoology, Harvard University], vol. 9, pp. 221-300 [with Herbert G. Deignan]

"Races of the Short-tailed Hawk, *Buteo brachyurus*," *The Auk*, vol. 77, no. 4, pp. 448-459

ROSCOE, ERNEST J.

"Collecting Mollusks in Desert Regions," in *How to Collect Shells* (2nd edition) [American Malacological Union, Buffalo, New York], pp. 60-62

SOLEM, ALAN

"Charles G. Nelson Collection," *Nautilus*, vol. 74, no. 1, p. 39

"Fred L. Button Collection," *Nautilus*, vol. 74, no. 1, pp. 38-39

New Caledonian Non-marine Shells Collected by T. D. A. Cockerell in 1928 [Notulae Naturae, Academy of Natural Sciences, Philadelphia, number 338], 9 pages, 8 illustrations

"Non-marine Mollusca from the Florida Islands, Solomon Islands," *Journal of the Malacological Society of Australia*, no. 4, pp. 39-56, 3 illustrations

"Notes on South American Non-marine Mollusca," *Annali del Museo Civico de Storia Naturale de Genova*, vol. 71, pp. 416-432, 2 illustrations

TRAYLOR, MELVIN A., JR.

"A New Race of *Emberiza striolata*," *Natural History Miscellanea*, no. 175, pp. 1-2

"*Francolinus schlegelii* Heuglin in Cameroon," *Bulletin of the British Ornithologists' Club*, vol. 80, no. 5, pp. 86-88

"Genera *Corythornis*, *Ispidina* and *Myioceyx*," *Bulletin of the British Ornithologists' Club*, vol. 80, no. 8, pp. 144-146

"Mutation in an African Flycatcher, *Dyaphorophya concreta*," *The Auk*, vol. 77, pp. 80-82

"Notes on the Birds of Angola, Non-Passerines," *Companhia Diamantes de Angola, Publicações Culturais*, no. 51, pp. 132-186

WOODS, LOREN P.

A List of Common and Scientific Names of Fishes from the United States and Canada (second edition), *American Fisheries Special Publication No. 2*, 102 pages [with Reeve M. Bailey (chairman) and others]

"Family Pomacentridae: Damselfishes," in *Fishes of the Marshall and Marianas Islands* (by Leonard P. Schultz and collaborators) [*United States National Museum Bulletin 202*, volume 2], pp. 47-120, 46 illustrations

CAFETERIA AND LUNCHROOM

Along with the increase in Museum attendance I am happy to report a substantial increase in the business of the cafeteria and lunchroom, which reached a total of 213,690 (an increase of $11\frac{1}{8}$ per cent). During the summer, when the Museum remained open on Saturday and Sunday evenings as well as on the Wednesday and Friday evenings when the free concerts are held in Grant Park, many persons who wished to spend the long summer evenings on the lakefront came to the Museum for an interesting visit to the exhibits and dinner in the Museum cafeteria. In all, the cafeteria and lunchroom served 247,509 persons. During the year the Museum expanded its facilities for school groups and individuals who bring their lunches to the Museum.

MAINTENANCE, CONSTRUCTION, AND ENGINEERING

The care of our huge building, including repairs and improvements as required, is but a part of the work of the divisions of Maintenance and Engineering. Heating, lighting, cleaning, snow-removal, and repair or replacement of nonfunctioning fixtures rendered ineffective by age, obsolescence, or vandalism are all parts of the normal work that makes possible our educational and scientific services to the people of the Chicago region.

Necessary tuckpointing was done on entrance steps, terraces, and chimney. Wall washing and painting continued throughout the year, as did the repair and replacement of upholstery in James Simpson Theatre and the Lecture Hall. A new classroom, complete with public-address system, was built on the ground floor so that children's groups might be better briefed before visiting the Museum exhibits. A new information booth was constructed in Stanley Field Hall and wired for lighting and telephone. Lunchroom tables and rest benches were refinished as required. New storm sash were built and installed on both sides of the north entrance.

In Hall 25 (Botany) closing of windows was completed and ceiling fixtures were removed. Outlets for lighting exhibit cases were installed, together with new fixtures to light the murals. Closing of windows in Hall 28 (Botany) was begun and the new wiring was completed. Hall L (Anthropology) on the ground floor was remodeled, and selected objects from Edward E. and Emma B. Ayer Hall (Hall 2, Anthropology) were moved to that location. The necessary cases were provided to permit installation in Ayer Hall of

new exhibits for the Hall of Primitive Art (see page 48). Exhibit cases were provided as needed for Hall F (Anthropology), which is now being reinstalled.

During the summer season the usual cleaning, repairing, and refitting of boilers, tubes, stokers, pumps, and accessories were done. Plumbing and electrical maintenance and extension continued throughout the year. One of the six magnificent chandeliers in Stanley Field Hall was completely rewired and the others were cleaned and relamped. Lighting of exhibit cases was completed in Hall 26 (Botany) and begun in Hall F (Anthropology)—the regular replacement of electric lamps through the building takes the full time of one man and much of the time of another. Completely new lighting was installed in the office of the Director of the Museum. New wire was installed for the public-address system in James Simpson Theatre and a new drinking fountain was placed in the adjacent lobby. In continuation of our electrical modernization program two new panel-boards for lighting were installed in locations on the ground floor.

During the heating season 37,610,600 pounds of steam were used to heat the Museum building while 10,050,000 pounds were furnished to Shedd Aquarium and 17,139,200 pounds to the Chicago Park District to heat its Administration Building and the offices and rooms in Soldier Field Stadium. New contracts were negotiated to cover this continuing service for the next contract periods.

MISCELLANEOUS

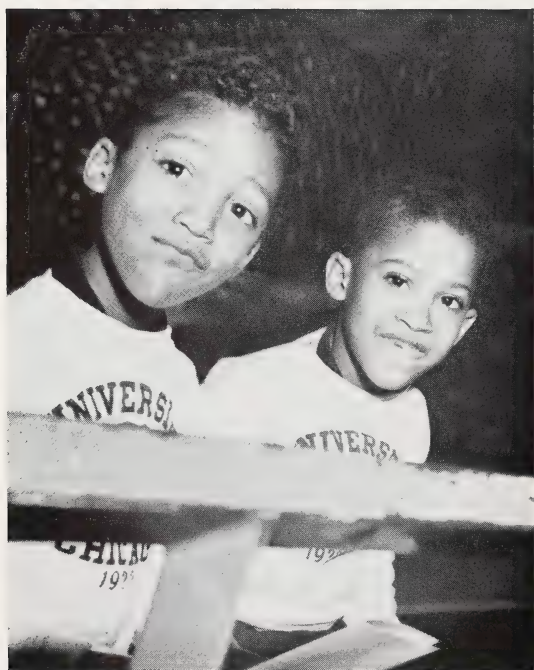
In the pages that follow are submitted the Museum's financial statements, attendance statistics, door receipts, accessions, list of Members, articles of incorporation, and amended by-laws.

CLIFFORD C. GREGG, *Director*
Chicago Natural History Museum

ATTENDANCE STATISTICS

FINANCIAL STATEMENTS

LIST OF ACCESSIONS



LITTLE
VISITORS
IN THE
HALL OF
FISHES

COMPARATIVE ATTENDANCE STATISTICS AND DOOR RECEIPTS

FOR YEARS 1960 AND 1959

| | 1960 | | 1959 |
|--|-----------|---------------|-----------|
| Total attendance..... | 1,244,374 | | 1,075,426 |
| Paid attendance..... | 172,759 | | 157,643 |
| Free admissions on pay days | | | |
| Students..... | 55,670 | | 53,662 |
| School children..... | 178,200 | | 166,298 |
| Teachers..... | 11,670 | | 10,883 |
| Members of the Museum..... | 954 | | 756 |
| Service men and women..... | 1,159 | | 840 |
| Special meetings and occasions..... | 10,412 | | 3,640 |
| Press..... | 84 | | 43 |
| Admissions on free days | | | |
| Thursdays (52)..... | 143,255 | (52) | 141,491 |
| Saturdays (53)..... | 307,440 | (52) | 251,262 |
| Sundays (51)..... | 362,771 | (52) | 288,908 |
| Highest attendance on any day | | | |
| (December 3)..... | 13,472 | (November 28) | 13,888 |
| Lowest attendance on any day | | | |
| (February 15)..... | 265 | (January 5) | 149 |
| Highest paid attendance (September 5).... | 3,757 | (September 7) | 3,236 |
| Average daily admissions (364 days)..... | 3,418 | (363 days) | 2,963 |
| Average paid admssions (208 days)..... | 831 | (207 days) | 765 |
| <hr/> | | | |
| Number of picture postcards sold..... | 273,247 | | 278,682 |
| Sales of Museum publications (scientific and popular), <i>General Guide</i> , and photographs; checkroom receipts..... | \$ 41,788 | | \$ 35,179 |

CHICAGO NATURAL HISTORY MUSEUM
COMPARATIVE STATEMENT OF RECEIPTS
AND EXPENDITURES—CURRENT FUNDS
FOR THE YEARS 1960 AND 1959

GENERAL OPERATING FUND

| RECEIPTS: | 1960 | 1959 |
|---|--------------------|--------------------|
| Endowment income— | | |
| From investments in securities | \$ 393,085 | \$ 386,590 |
| From investments in real estate* | 403,535 | 406,801 |
| | <u>\$ 796,620</u> | <u>\$ 793,391</u> |
| * the Pittsfield Building was sold during 1960 | | |
| Chicago Park District—tax collections | \$ 344,455 | \$ 379,249 |
| Annual and sustaining memberships | 30,220 | 29,340 |
| Admissions | 43,190 | 39,411 |
| Sundry receipts, including general purpose contributions | 87,624 | 80,574 |
| Restricted funds transferred to apply against Operating Fund expenditures (contra) | 124,301 | 247,622 |
| | <u>\$1,426,410</u> | <u>\$1,569,587</u> |
| EXPENDITURES: | | |
| Operating expenses— | | |
| Departmental | \$ 661,832 | \$ 633,983 |
| General | 492,345 | 493,319 |
| Building repairs and alterations | 98,914 | 97,321 |
| | <u>\$1,253,091</u> | <u>\$1,224,623</u> |
| Collections—purchases and expedition costs | \$ 67,448 | \$ 81,873 |
| Furniture, fixtures, and equipment | 6,395 | 23,210 |
| Pension and employees' benefits | 69,341 | 81,879 |
| Provision for mechanical plant depreciation (contra) | 10,000 | 10,000 |
| Nonrecurring expenditures— | | |
| Purchase and installation of boiler | \$ 20,226 | \$ 99,452 |
| Exterior lighting of Museum building | | 49,300 |
| | <u>\$1,426,501</u> | <u>\$1,570,337</u> |
| DEFICIT FOR YEAR | <u>\$ 91</u> | <u>\$ 750</u> |

AUDITOR'S CERTIFICATE APPEARS ON FOLLOWING PAGE

CONTINUED ON NEXT PAGE

CHICAGO NATURAL HISTORY MUSEUM
COMPARATIVE STATEMENT OF RECEIPTS
AND EXPENDITURES—CURRENT FUNDS

FOR THE YEARS 1960 AND 1959 (CONTINUED)

THE N. W. HARRIS PUBLIC SCHOOL
EXTENSION FUND

| | 1960 | 1959 |
|-----------------------------|-----------------|-----------------|
| Income from endowments..... | \$ 32,998 | \$ 31,120 |
| Expenditures..... | 24,500* | 28,213 |
| SURPLUS FOR THE YEAR..... | <u>\$ 8,498</u> | <u>\$ 2,907</u> |

* not including \$4,293 for trucks purchased and charged to Depreciation Fund

OTHER RESTRICTED FUNDS

| | | |
|---|-------------------|---------------------|
| RECEIPTS: | 1960 | 1959 |
| From Specific Endowment Fund investments.... | \$ 79,181 | \$ 74,367 |
| Contributions for specific purposes..... | 52,675 | 54,187 |
| Operating Fund appropriation for mechanical plant depreciation (contra)..... | 10,000 | 10,000 |
| Sundry receipts..... | 62,292 | 63,541 |
| Gain on sale of restricted fund securities..... | 3,271 | 7,161 |
| | <u>\$ 207,419</u> | <u>\$ 209,256</u> |
| EXPENDITURES: | | |
| Transferred to Operating Fund to apply against expenditures (contra)..... | \$ 124,301 | \$ 247,622 |
| Added to Endowment Fund principal..... | 55,000 | 70,000 |
| | <u>\$ 179,301</u> | <u>\$ 317,622</u> |
| EXCESS (DEFICIENCY) OF RECEIPTS OVER EXPENDITURES..... | <u>\$ 28,118</u> | <u>\$ (108,366)</u> |

THE TRUSTEES,
CHICAGO NATURAL HISTORY MUSEUM:

In our opinion, the accompanying statement presents fairly the receipts and expenditures of the current funds of Chicago Natural History Museum for the year ended December 31, 1960, in conformity with generally accepted accounting principles applied on a basis consistent with that of the preceding year. Our examination of the statement was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

ARTHUR YOUNG & COMPANY

Chicago, Illinois
January 21, 1961

USE DURING 1960 OF SPECIAL FUNDS CONTRIBUTED IN FORMER YEARS

| | |
|---|-------------|
| EDWARD E. AYER LECTURE FOUNDATION | |
| Cost of Museum lecture series..... | \$ 4,430.25 |
| Subsidy to publication program..... | 1,559.39 |
| FREDERICK AND ABBY KETTELLE BABCOCK FUND | |
| Subsidy to publication program..... | 1,998.74 |
| MRS. T. B. BLACKSTONE FUND | |
| Purchase of specimens..... | 350.00 |
| EMILY CRANE CHADBOURNE ZOOLOGY FUND | |
| Purchase of specimens..... | 347.50 |
| Field trip..... | 375.00 |
| WILLIAM J. AND JOAN A. CHALMERS TRUST FUND | |
| Purchase of specimens..... | 134.10 |
| MRS. JOAN A. CHALMERS BEQUEST FUND | |
| Purchase of specimens..... | 174.25 |
| Laboratory equipment..... | 325.50 |
| CONOVER GAME-BIRD FUND | |
| Purchase of specimens..... | 1,686.70 |
| Purchase of field equipment..... | 1,541.56 |
| Harry A. Beatty Expedition..... | 1,125.00 |
| D. S. Rabor Expedition..... | 4,047.72 |
| THOMAS J. DEE FELLOWSHIP FUND | |
| Fellowship grants to | |
| Dr. J. A. Roze..... | 300.00 |
| Rev. H. B. Herrington..... | 600.00 |
| Miss Mona R. J. Edwards..... | 150.00 |
| GROUP INSURANCE FUND* | |
| Group insurance costs..... | 6,451.06 |
| Subsidy to Pension Fund..... | 4,500.00 |
| N. W. HARRIS PUBLIC SCHOOL EXTENSION FUND | |
| Preparation, care, and distribution of exhibits to schools of Chicago | 24,500.23 |
| THE JOHNSON FOUNDATION | |
| Research on waxy palms..... | 2,963.87 |
| BERTHOLD LAUFER MEMORIAL FUND | |
| Purchase of specimens..... | 1,500.00 |
| LIBRARY FUND† | |
| Purchase of books and periodicals..... | 7,582.96 |
| MUSEUM PURCHASE FUNDS | |
| Purchase of specimens..... | 2,122.53 |
| NATIONAL SCIENCE FOUNDATION | |
| Research subsidies (various)..... | 20,187.56 |
| JAMES NELSON AND ANNA LOUISE RAYMOND PUBLIC SCHOOL AND CHILDREN'S LECTURE FUND | |
| Subsidy to public school and children's lecture program..... | 34,448.72 |
| DONALD RICHARDS FUND | |
| Subsidy to cryptogamic botanical research..... | 330.00 |
| MAURICE L. RICHARDSON PALEONTOLOGICAL FUND | |
| Field trip to Wyoming..... | 800.00 |
| Purchase of specimens..... | 100.00 |
| KARL P. SCHMIDT FUND | |
| Study grants..... | 288.00 |

These funds have been used in accordance with the stipulations under which they were accepted by the Museum. In addition, the income from more than \$15,000,000 of unrestricted endowment funds was used in general Museum operation.

* Established by Stanley Field

† Established by Edward E. Ayer, Huntington W. Jackson, Arthur B. Jones, and Julius and Augusta N. Rosenwald

Contributions and Bequests

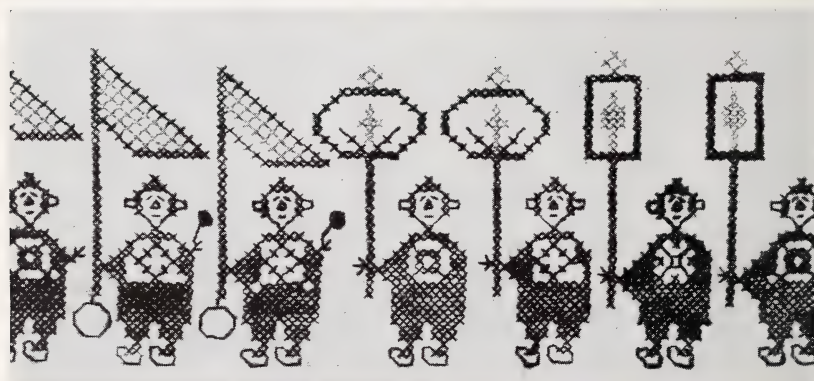
Contributions and bequests to Chicago Natural History Museum may be made in securities, money, books, or collections. They may, if desired, take the form of a memorial to a person or cause, to be named by the giver. For those desirous of making bequests to the Museum, the following form is suggested:

FORM OF BEQUEST

I do hereby give and bequeath to Chicago Natural History Museum of the City of Chicago, State of Illinois:

Cash contributions made within the taxable year to Chicago Natural History Museum to an amount not in excess of 20 per cent of the taxpayer's net income are allowable as deductions in computing net income for federal income tax

DETAIL OF EMBROIDERED PIECE



FROM COLLECTION OF CHINESE TEXTILES PURCHASED IN 1960

ACCESSIONS 1960

DEPARTMENT OF ANTHROPOLOGY

BAKER, MR. AND MRS. HERBERT J., Chicago: ethnological specimens—New Guinea (gift)

BARBER, COURTENAY, JR., Chicago: ethnological specimens—United States plains and New Guinea (gift)

BUJAK, WALTER, Cleveland: ink rubbing of Maya carving and inscription—Palenque, Chiapas, Mexico (gift)

CARR, MRS. WALTER S., Chicago: 2 pottery vessels—southwestern United States (gift); 2 mate cups (each with sipping tube)—Argentina (gift); 1 lantern—China (gift)

CHICAGO NATURAL HISTORY MUSEUM:
Collected by Dr. Paul S. Martin (Southwest Archaeological Expedition, 1960): 575 stone, bone, shell, and baked-clay artifacts, 12 pottery vessels, 2 skeletons, 1 human cranium, 41 charcoal and wood samples for dating, potsherds, charred corncobs, pigment samples, and unworked bone

Purchases: 4 masks from Belgian Congo, 1 Hawaiian necklace, 1 bracelet, 1 chisel and 2 pottery vessels from Peru, Chinese puppets, Chinese rubbings, and collection of Chinese textiles

COWLES, ALFRED, Chicago: 4 Navaho blankets and 1 Indian necklace—southwestern United States (gift)

DAILEY, ARTHUR A., Evanston, Illinois: effigy pottery vessel—Chile (gift)

DAVIS, D. DWIGHT, Richton Park, Illinois: piece of bark cloth—Ituri Forest, Congo (gift)

EASBY, MR. AND MRS. DUDLEY T., JR., New York: painting of New Britain dance mask (by Miguel Covarrubias)—Mexico (gift)

FARBER, MRS. MAUDE A., Chicago: ethnological specimens—Australia (gift)

FARYASZEWSKA, MRS. L., Luluabourg, Belgian Congo: Asalampasu mask—Belgian Congo (gift)

FLOUNDERS, BEN, Whyalla, South Australia: 34 stone tools—Australia (gift)

FREDERICK, MR. AND MRS. CLARENCE L., Chicago: ethnological specimens—Africa (gift)

FULLER, CAPTAIN AND MRS. A. W. F., London: carved temple idol—Cook Islands (gift)

GRAFE, ROBERT, Chicago: skull and archaeological objects—Ontario County, New York (gift)

HAYES, FRANK L., Evanston, Illinois: ax—Africa (gift); Kukri knife—India (gift)

HOLABIRD, MRS. JOHN A., Chicago: Navaho textiles—southwestern United States (gift)

INSTITUTO DE INVESTIGACIONES CIENTIFICAS, Caracas, Venezuela: 26 type artifacts of stone of Paleo-Indian El Jobo complex—Venezuela (exchange)

KOEHLER, MARTIN D., River Grove, Illinois: photographs of petroglyphs—Glen Canyon, Utah (gift)

MICHIGAN ARCHAEOLOGICAL SOCIETY, WRIGHT L. COFFINBERRY CHAPTER, Grand Rapids, Michigan: 2 Woodland jars and 1 sherd—Oceana County, Michigan (exchange)

MUELLER, MR. AND MRS. FRED, AND MRS. PAULINE TUCK, Chicago: ethnological specimens—Samoa (gift)

TAUBENHAUS, MRS. JOSEPHINE, Chicago: Ming lacquer and brass box—China (gift)

THACKER, ROBERT P., Chicago: model of Kusai house—Micronesia (gift)

TUCK, MRS. PAULINE
(see MUELLER)

UNITED STATES NATIONAL MUSEUM, Washington, D.C.: type collection of prehistoric pottery—British Guiana (exchange)

WALTER, MRS. ALLAN W., Kenilworth, Illinois: Hupa hat basket and Mono covered basket—California (gift)

WHITE, MRS. JOSEPH, Chicago: decorated leather pouch—Africa (gift)

WIELGUS, MR. AND MRS. RAYMOND, Chicago: Maori canoe prow carving—New Zealand (exchange); carved and painted zoomorphic wooden seat and gourd smoking-pipe—New Guinea (gift); necklace—Hawaii (gift); prehistoric ceramic bowl—Peru (gift)

DEPARTMENT OF BOTANY

AMERICAN GUM IMPORTERS LABORATORY, INC., New York: 12 samples of various natural resins (gift)

AMERICAN VISCOSE CORPORATION, Fredericksburg, Virginia: 2 samples of synthetic gums (gift)

ARMSTRONG CORK COMPANY, Lancaster, Pennsylvania: 6 samples of various cork products (gift)

BENNETT, HOLLY REED, Chicago: 3,566 specimens of vascular plants (gift)

BISCHOFF, HARRY W., Austin, Texas: 2 type specimens of *Chlamydomonas microphila* (gift)

BOND CROWN AND CORK COMPANY, Chicago: samples of various cork products (gift)

BRITISH MUSEUM (NATURAL HISTORY), London: 198 specimens of vascular plants (exchange)

CALIFORNIA, UNIVERSITY OF, Berkeley: 156 specimens of vascular plants (exchange)

CALIFORNIA AT LOS ANGELES, UNIVERSITY OF, Los Angeles: 33 specimens of vascular plants (gift)

CHICAGO NATURAL HISTORY MUSEUM: *Purchases*: 67 specimens of Malayan ferns, 477 specimens of South American vascular plants

Transfer: specimen of amber—from Department of Geology, Chicago Natural History Museum (see Annual Report 1894–95 [vol. 1, no. 1, 1895], page 30, Accessions, Department of Geology, and page 51, Purchases, Department of Geology)

CORN PRODUCTS COMPANY, New York: samples of yellow dextrine, white dextrine, and British gum (gift)

CORNELL UNIVERSITY, Ithaca, New York: 46 specimens of vascular plants (exchange)

CULBERSON, DR. WILLIAM L., Durham, North Carolina: 2 type specimens of *Parmelia confoederata* Culberson and *Physcia culbersonii* Thomson (gift)

DEASON, DR. TEMD R., Austin, Texas: 21 type specimens of algae (gift)

DOW CHEMICAL COMPANY, Midland, Michigan: samples of 3 kinds of "Methocel" for use in exhibit on gums (gift)

FOREST HERBARIUM, Forest Research Station, Ibadan, Nigeria: 3 specimens of *Cedrela* (gift)

FREELAND, R. O., Evanston, Illinois: 2 specimens of mosses (gift)

GIBSON, MRS. DOROTHY, Chicago: 2 vials of seed samples (gift)

GREGG, DR. CLIFFORD C., Valparaiso, Indiana: 1 specimen of *Castanea mollissima* and 2 specimens of mosses (gift)

HAYNIE, MISS NELLIE V., Elmhurst, Illinois: 3,980 specimens of vascular plants (gift)

HAYS, JAMES D., Johnstown, New York: 8 slides of palm pollen (gift)

HUBACH, PROFESSOR E., Bogotá, Colombia: 4 fossil fruits of *Saccoglottis cip-aconensis* Berry (gift)

ILLINOIS STATE MUSEUM, Springfield: 5 specimens of vascular plants (gift)

ILLINOIS STATE NATURAL HISTORY SURVEY, Urbana: specimen of *Trichomanes Boschianum* Sturm. (exchange) and specimen of *Melochia corchorifolia* L. (gift)

INSTITUTO INTERAMERICANO DE CIENCIAS AGRICOLAS DE LA O. E. A., San José, Costa Rica: 31 specimens of vascular plants (gift)

IOWA, STATE UNIVERSITY OF, Iowa City: 173 specimens of vascular plants (exchange)

ISILDAR, DR. FIKRET, Canton, Ohio: 2 packages of Turkish cigarettes (gift)

JARDIM BOTANICO DO RIO DE JANEIRO, Rio de Janeiro, Brazil: 409 specimens of vascular plants (exchange)

JOHNSTON, DR. IVAN M. (deceased), Cambridge, Massachusetts: fossil fruit of *Saccoglottis* (gift)

KANSAS, UNIVERSITY OF, Lawrence: 150 specimens of vascular plants (exchange)

KELCO COMPANY, Chicago: 3 samples of algin products (gift)

LANKESTER, CHARLES H., Cartago, Costa Rica: 1 specimen of *Eschweilera calyculata* Pittier and 2 specimens of *Epidendrum serricardium* Schltr. (gift)

LAWRANCE, ALEX E., Natal, British Columbia, Canada: 17 specimens of vascular plants (gift)

MACDOUGALL, THOMAS, Tehuatipec, Mexico: specimen of *Dahlia scapigera* (gift)

MARSHALL, FRANK F., Ridgeway, Pennsylvania: samples of various tannins and tannin extracts (gift)

MEER CORPORATION, New York: sample of gum labdanum (gift)

MINNESOTA, UNIVERSITY OF, Minneapolis: 68 specimens of vascular plants (exchange)

MISSOURI BOTANICAL GARDEN, St. Louis: 7 specimens of Scrophulariaceae (gift) and 299 specimens of vascular plants (exchange)

MORNINGSTAR-PAISLEY, INC., New York: samples of various gums and gum sources (gift)

MORTON, DR. FRIEDRICH, Salzburgmergut, Austria: 5 larch-needle lake balls (gift)

MORTON, MRS. JULIA F., Coral Gables, Florida: tube of lipstick made from *Bixa orellana* derivative and descriptive pamphlet (gift)

MUSÉUM NATIONAL D'HISTOIRE NATURELLE, Paris: 980 specimens of vascular plants (exchange)

PABST, DR. GUIDO F. J., Rio de Janeiro, Brazil: 202 specimens of vascular plants (exchange)

PALSER, DR. BARBARA, Chicago: 17 specimens of Ericaceae (gift)

PAN AMERICAN PETROLEUM CORPORATION, Tulsa, Oklahoma: 292 slides of various pollens (exchange)

PENICK, S. B., AND COMPANY, New York: samples of *Psyllium* seeds, husks, quince seeds, and talha gum (gift)

PHINNEY, DR. HARRY, Corvallis, Oregon: 4 slides of diatoms (gift)

RANSOM COMPANY, L. E., New York: 4 samples of dyestuffs (gift)

REICH, ROBERT J., Chicago: 130 specimens of vascular plants (exchange)

ROSS, WALTER S., ESTATE OF, Chicago: 32 framed prints from Robert J. Thornton's *The Temple of Flora* (gift)

SHERFF, DR. EARLE, Hastings, Michigan: 43 specimens of vascular plants (gift)

STEIN, HALL & CO., INC., New York: sample of *Cyamopsis psoralioides* seeds (gift)

STEYERMARK, DR. JULIAN A., Caracas, Venezuela: 3 specimens of *Cedrela* (gift)

STRAUCH CHEMICAL DISTRIBUTORS, Chicago: 6 samples of gums (gift)

SWINK, FLOYD A., Willow Springs, Illinois: 159 specimens of vascular plants (gift)

TENNESSEE, UNIVERSITY OF, Knoxville: specimen of *Herpetineuron toccoeae* (exchange)

TEXAS, UNIVERSITY OF, Austin: type-specimen of *Cassia arlindo-andradei* Hoehne (exchange)

THIERET, DR. JOHN W., Homewood, Illinois: 186 specimens of vascular plants (gift)

TRAVERSE, DR. ALFRED, Houston: 272 specimens of vascular plants (exchange)

UNI-GUM DIVISION, T. M. DUCKE & SONS, INC., Clifton, New Jersey: 4 samples of gums and extracts (gift)

UNITED STATES TESTING COMPANY, INC., Hoboken, New Jersey: samples of various tannins and extracts (gift)

VERMONT, UNIVERSITY OF, Burlington: 640 specimens of vascular plants of Pringle Collection (exchange)

WATSON, JOSEPH, New Albany, Indiana: 111 specimens of vascular plants (exchange)

WEST INDIES CHEMICAL WORKS, LTD., Spanish Town, Jamaica: 2 samples of dyewood and 4 samples of dyewood extracts (gift)

WILLIAMS, DR. LOUIS O., Park Forest, Illinois: 69 specimens of vascular plants, 2 photographs, and 1 copy of descriptive literature on Guatemalan Asteraceae (gift)

WILSON, DR. L. R., Norman, Oklahoma: 6 slides of pollen (2 each of Welwitschiaceae, Ephedraceae, and Gnetaceae) (exchange)

WISCONSIN, UNIVERSITY OF, Madison: 62 specimens of vascular plants (exchange)

WYANDOTTE CHEMICALS CORPORATION, Wyandotte, Michigan: sample of Carbose D gum (gift)

WYOMING, UNIVERSITY OF, Laramie: 128 specimens of vascular plants (exchange)

YALE UNIVERSITY, SCHOOL OF FORESTRY OF, New Haven, Connecticut: 53 specimens of vascular plants (exchange)

YUNCKER, DR. T. G., Greencastle, Indiana: type-specimen of *Cuscuta Warneri* Yuncker (gift)

DEPARTMENT OF GEOLOGY

ANDERS, DR. EDWARD, Chicago: iron meteorite slice (Sikhote-Alin)—eastern Siberia (gift)

APPLEGATE, SHELTON P., Chicago: fossil invertebrates and vertebrates—various localities (gift)

ARMISTEAD, ROBERT L. (address lacking): fossil invertebrates—Florida (gift)

BELL, BRUCE, Flossmoor, Illinois: fossil invertebrates—Florida (gift)

BIEHL, VIANNA W., Lake Villa, Illinois: fossil femur of bear—Missouri (gift)

BUCKSTAFF, RALPH N., Oshkosh, Wisconsin: slice of iron meteorite (Angelica)—Wisconsin (exchange)

BUDLONG, SIMEON, Chicago: fossil vertebra of bison—Minnesota (gift)

CARTER COUNTY MUSEUM, Ekalaka, Montana: fossil invertebrates—locality lacking (exchange)

CHALMERS CRYSTAL FUND, WILLIAM J.: minerals—various localities (purchase)

CHICAGO NATURAL HISTORY MUSEUM: Collected by Harry E. Changnon (field work, 1960): silt and limestone—Illinois

Collected by Dr. Robert H. Denison and Dr. Eugene S. Richardson, Jr. (Big Horn Mountains [Wyoming] Paleontological Field Trip, 1960): numerous fossil fishes and eurypterids—Wyoming

Collected by Dr. John W. Thieret (Northern Great Plains Botanical Field Trip, 1959): soil samples—Canada

Collected by Bertram G. Woodland (field work, 1958): lead ore, cores from mine bore, and Lamotte sandstone—Missouri

Collected by Dr. Rainer Zangerl and Dr. Eugene S. Richardson, Jr. (field work, 1960): numerous fossil fishes—Indiana

Collected by Zangerl, Richardson, and Woodland (field work, 1960): fossil invertebrates—Illinois

Purchase: fossil shark fragments—Kansas

Transfer: Ordovician graptolites— from Department of Zoology, Chicago Natural History Museum (see Annual Report 1959, page 72 [Fred Button Collection of mollusks] and page 122 [Accessions, Department of Zoology, "Purchases"])

CHICAGO, UNIVERSITY OF, Chicago: fossil reptiles—Texas (gift)

CUNNINGHAM, J. L., Chicago: snails (Pennsylvanian) replaced by pyrite—Illinois (gift)

DARTMOUTH COLLEGE MUSEUM, Hanover, New Hampshire: cast of fossil fish (gift)

DENISON, DR. ROBERT H., Evanston, Illinois: fossil fishes—Illinois (gift); casts of fossil fishes (gift)

DOERRER, MRS. ETHEL, Tinley Park, Illinois: fossil invertebrates—Illinois (gift)

DYBAS, HENRY S., Homewood, Illinois: fossil vertebrates—Kentucky (gift)

FREDRIKSSON, DR. KURT, Stockholm, Sweden: fragments of meteorites—various localities (exchange)

GAITHER, CHARLES C., El Paso, Texas: mineral—Texas (gift)

GIACOMELLI, LORENZO ORESTES, Buenos Aires, Argentina: fragments of stone meteorites—Argentina (gift)

GOESTON, EARL, AND PAUL COTTON, Chicago: skull of extinct giant beaver—Illinois (gift)

GUNDERSEN, PAUL H., River Grove, Illinois: fossil invertebrates—Illinois (gift)

HANNEN, MISS GERTRUDE, Chicago: snail (Pennsylvanian) replaced by pyrite—Illinois (gift)

HESTON, WILLIAM, Chicago: fossil invertebrates—South Dakota (gift)

HOWELL, DR. B. F., Princeton, New Jersey: invertebrate specimens—Newfoundland (gift)

HUPPERT, KARL H., Chicago: mastodon skeleton, turtle scraps, fossil vertebrates—Indiana (gift)

JOHNE, C. T., Kragero, Norway: stone meteorite fragment—Norway (gift)

JOHNSON, IRVING, El Monte, California: fossil fish teeth—California (gift)

KJELLESVIG-WAERING, ERIK N., Buenos Aires, Argentina: invertebrate fossils—various localities (gift)

KUHM, DR. H. W., Milwaukee, Wisconsin: fossil invertebrates—Tennessee (gift)

LANGSTON, DR. WANN, JR., Ottawa, Ontario, Canada: cast of fossil mammal (gift)

LINNARSON, AKI, Jonkoping, Sweden: minerals—Sweden (exchange)

LUCKNOW, UNIVERSITY OF, Lucknow, India: paleobotanical specimens—India (open exchange)

MCCLUNG, RICHARD, Chicago: eurypterid—Illinois (gift)

MCLUCKIE, JOHN, Coal City, Illinois: copper replicas of invertebrate fossils (gift)

MINERALOGICAL MUSEUM, Copenhagen, Denmark: minerals—Greenland (exchange)

MOORE, MICHAEL, Hinsdale, Illinois: invertebrates—Illinois (gift)

MUSEO DE LA PLATA, La Plata, Argentina: 49 casts of fossil vertebrates (exchange)

NICKEL, DR. ERNEST, Ottawa, Ontario, Canada: minerals—Canada (gift)

OLSON, W. M., Newport, Washington: minerals—Washington (gift)

OSTROM, GERALD E., Winnetka, Illinois: minerals—locality lacking (exchange)

PARRIS, F. C., Inglewood, California: mineral—New Mexico (gift)

PRINCETON UNIVERSITY, Princeton, New Jersey: casts of vertebrates (exchange)

RITCHIE, ARTHUR, Olympia, Washington: minerals—locality lacking (gift)

SCHAEFFER, DR. BOBB, New York: fossil braincase of fish—Wyoming (gift)

SEGAL, SI, Chesterton, Indiana: fossil snail—Illinois (gift)

SEIFERT, MARTIN, Carrollton, Texas: fossil ammonites and mollusks—Texas (gift)

SHEEHAN, THOMAS R., Lee Center, Illinois: fossil cephalopod and gastropod—Illinois (gift)

SINKANKAS, JOHN, Arlington, Virginia (gift)

SLOAN, DR. ROBERT E., Minneapolis: cast of fossil fish-skull—South Dakota (gift)

SPOONER, CHARLES, Downsville, Ontario, Canada: minerals—Canada (gift)

STURTEVANT FUND, MR. AND MRS. ROY E.: minerals—New York (purchase)

TEXAS MEMORIAL MUSEUM, Austin: cast of fossil mammal skeleton (exchange)

TONRY, EDWARD T., Downer's Grove, Illinois: fossil crinoids—Illinois (gift)

WHITE, JAMES E., Pittsburgh: minerals—various localities (gift)

WHITTLESEY, DR. AND MRS. C. E., Glen Ellyn, Illinois: silicified algal matter—Wyoming (gift)

WOLLIN, JAY, Morton Grove, Illinois: fossil invertebrates—Iowa (gift)

WOODLAND, BERTRAM G., Homewood, Illinois: minerals—western Norway (gift); algal limestone—England (gift)

ZANGERL, DR. RAINER, Hazelcrest, Illinois: fossil invertebrates—Ohio (gift)

DEPARTMENT OF ZOOLOGY

ADLERBLUM, BURTON S., Oak Park, Illinois: turtle—Florida (gift)

BAKER, EMMETT B., Kingston, Massachusetts: approximately 500 mollusks—New England (gift)

BALL, DR. GEORGE, Edmonton, Alberta, Canada: 2 slides of sucking lice, 6 *Grylloblatta campodeiformis* [no common name]—Alaska (exchange)

BENESH, BERNARD, Burrville, Tennessee: 428 insects—Tennessee (gift)

BERRY, MRS. P. Y., Kuala Lumpur, Malaya: 3 frogs—Singapore (gift)

BISHOP MUSEUM, BERNICE P., Honolulu: 490 sets of marine shells—Pacific Ocean (exchange)

BLAUFUSS, ARNOLD H., Chicago: 4 worms—India (gift)

BONETTO, DR. ARGENTINO A., Santa Fe, Argentina: 45 freshwater clams—Argentina (gift)

BOO-LIAT, LIM, Kuala Lumpur, Malaya: 6 snakes—Malaya (gift)

BOULTON, RUDYERD, Salisbury, Southern Rhodesia: 50 birds—United States (gift)

BRAND, DR. LOUIS, Houston: approximately 8,000 mollusks—worldwide (gift)

BREELAND, DR. SAM, Wilson Dam, Alabama: 20 insects—Panama (gift)

BRITISH MUSEUM (NATURAL HISTORY), London: 1 snake—Borneo (exchange); 1 bird—Angola (exchange)

BROWN, MRS. W. D., Park Ridge, Illinois: approximately 50 snails—Texas (gift)

BUMZAHM, CARLOS BOYD, Chicago: 1 bat, 24 frogs, 2 lizards—Panama (gift)

BURGESS, DR. C. M., Honolulu: 20 mollusks—Hawaii (gift)

BUTOT, L. J. M., De Bilt (Utrecht), Netherlands: 4 landsnails—Java (gift)

CALIFORNIA AT LOS ANGELES, UNIVERSITY OF, Los Angeles: 50 fishes—various localities (gift)

CAMRAS, DR. SIDNEY, Chicago: 145 insects—United States (gift)

CARNEGIE MUSEUM, Pittsburgh: 25 birds—Angola, Philippines, and South and Central America (exchange)

CATE, CRAWFORD, Los Angeles: 2 snails—Hawaii (gift)

CHACE, EMERY P., San Diego: 55 snails—California and Oregon (gift)

CHENG, DR. THOMAS C., Easton, Pennsylvania: 6 bats—New Jersey (gift)

CHICAGO NATURAL HISTORY MUSEUM:

Collected by Harry A. Beatty (Guiana Zoological Expedition, 1960-61): 2 frogs, 20 lizards—Venezuela and Surinam

Collected by Dr. Robert F. Inger (Belgian Congo Zoological Expedition, 1959): 2 lizards—Belgian Congo

Collected by D. S. Rabor (Philippine zoological field work, 1959 and 1960): 1,783 birds, 84 mammals—Philippine Islands

Collected by Dr. Alan Solem: (West United States Field Trip, 1960) approximately 8,500 nonmarine mollusks—western United States; (with Mrs. Solem) (American Malacological Union Field Trip, 1960) 40 landsnails—Canada

Collected by Loren P. Woods (Great Lakes Zoological Field Work, 1960): 722 fishes—Lake Huron, Lake Michigan, and Lake Superior; 29 salamanders—Michigan

Purchases: 614 mammals, 1,198 birds, 112,068 insects and 243 pieces of Baltic amber with insect inclusions, 379 fishes, 814 reptiles and amphibians, 26,103 lower invertebrates

CHICAGO ZOOLOGICAL SOCIETY, Brookfield, Illinois: 13 mammals, 5 birds, 11 reptiles and amphibians—worldwide (gift)

CHIN PHUI KONG, Jesselton, North Borneo: turtle—North Borneo (gift)

CINCINNATI, UNIVERSITY OF, Cincinnati: bird—Honduras (exchange)

COBB, N. A., AND DEAN L. MURRAY, Battle Creek, Michigan (Cobb-Murray Expedition to India, 1958): 3 mammals—India (gift)

CORNFIELD, DANIEL AND DEBORAH, Riverdale, New York: 8 lots of freshwater mollusks—Wisconsin (gift)

CRAIGHEAD, DR. JOHN E., Boston: 3 lizards—Panama (exchange)

CROWELL, DR. ROBERT M., Canton, New York: 17 slides of water mites—Ohio (gift)

DAHLGREN, DR. B. E., Chicago: pair of walrus tusks—Alaska (gift)

DRAKE, DR. CARL J., Washington, D.C.: 12 bugs—Brazil, Japan, and Australia (gift)

DRAKE, ROBERT J., Vancouver, British Columbia, Canada: 2 landsnails—Mexico (gift)

DROPKIN, DR. VICTOR, Beltsville, Maryland: 302 insects—Texas (gift)

DUARTE, ELISEO, Montevideo, Uruguay: 72 sets of mollusks—Uruguay (exchange)

DUBRUL, DR. E. LLOYD, Chicago: dog skull—locality lacking (gift)

DVORAK, STANLEY J., Chicago: 4 mollusks—Mexico, Australia, and Philippine Islands (gift)

DYBAS, HENRY S., Homewood, Illinois: bat—Michigan (gift)

ELBEL, ROBERT E., Norman, Oklahoma: 60 slides of biting lice—Thailand and United States (gift)

EMERSON, DR. ALFRED E., Chicago: snake and lizard—India (gift)

FLEMING, DR. ROBERT L., Kathmandu, Nepal: 6 birds, 3 lizards, 7 snakes, 2 fishes, 1 hairworm—Nepal (gift)

FLORIDA, UNIVERSITY OF, Gainesville: 11 bats—Bahama Islands, Panama, and Guatemala (gift and exchange)

FLORIDA STATE MUSEUM, Gainesville: bat skull—British West Indies (gift)

FREDERICK, MRS. C. L., Chicago: bird—Dutch New Guinea (gift); 45 sets of seashells—Pacific Ocean (gift)

FULLER, CAPTAIN A. W. F., London: cat skull—Marquesas Islands (gift)

GENERAL BIOLOGICAL SUPPLY HOUSE, Chicago: caecilian—India (gift)

GHAFFARY, DR. N., Tehran, Iran: 9 snakes—Iran (gift)

GREENBERG, NATE, Elmhurst, Illinois: 4 mounted birds—Mexico, Brazil, and Comorro Islands (gift)

GREGG, DR. CLIFFORD C., Valparaiso, Indiana: 17 insects—Indiana and Europe (gift); snake—Indiana (gift)

HAAS, DR. GEORG, Jerusalem: 1 frog, 3 lizards, 1 turtle—Israel (exchange)

HAILE, N. S., Kuching, Sarawak: 63 frogs, 2 lizards—Sarawak (gift)

HALL, JACK C., Riverside, California: 20 bee-flies—United States (gift)

HEDDEN, CHESTER, Worthington, Ohio: snake—Ohio (gift)

HENDRICKSON, DR. JOHN R., Kuala Lumpur, Malaya: 3 frogs—Malaya (gift)

HERRINGTON, REV. H. B., Westbrook, Ontario, Canada: 46 sets of freshwater clam shells—Canada (exchange)

HERSHKOVITZ, PHILIP, South Holland, Illinois: 200 reprints of publications on mammals (gift to Reprint Library, Division of Mammals)

HILLENUS, DR. DIRK, Amsterdam, Netherlands: 2 frogs, 3 snakes, 2 turtles—Indonesian East Indies (exchange)

HOLLOWAY, MISS MARY ANN, Barrington, Illinois: fish—Lake Michigan (gift)

HOOD, JAMES R., Chattanooga, Tennessee: 23 landshells—Bermuda (gift)

HOOGSTRAAL, HARRY, Cairo, Egypt: 665 mammals, 384 birds, 57 reptiles and amphibians, 26 slides of biting lice from birds, approximately 240 mollusks—Egypt and Sudan (gift)

HOWARD, MRS. FAYE B., Pacific Palisades, California: 295 mollusks—Mexico and Panama (gift)

HUBRIGHT, LESLIE, Louisville, Kentucky: 28 lots of landshells—United States (gift)

INES, MADAME CARLOTA, PRINCESS SIGISMUND OF PRUSSIA, Barranca, Costa Rica: 8 mammals—Costa Rica (gift)

INGER, DR. ROBERT F., Homewood, Illinois: bat—Missouri (gift)

INSTITUT ROYAL DES SCIENCES NATURELLES DE BELGIQUE, Brussels: 357 fishes—Belgian Congo (exchange)

JACKSON, RALPH, Cambridge, Maryland: 8 landsnails—Ecuador (gift)

JEFE DEL LABORATORIO DE VERTEBRADOS FOSSILES, INSTITUTO MIGUEL LILLO, San Miguel de Tucuman, Argentina: 3 rats—Argentina (exchange)

JOHNSTONE, MRS. KATHLEEN, Mobile, Alabama: 15 shells—Alabama and Florida (gift)

JONES, ROBERT D., JR., Cold Bay, Alaska: 4 birds—Alaska (gift)

KANSAS, UNIVERSITY OF, Lawrence: lizard—Ceylon (exchange)

KAWAGUTI, DR. SIRO, Okayama, Japan: bivalved snail—Japan (gift)

KIRK, RICHARD G., Chicago: nematoid worm—Chicago (gift)

KLAWE, DR. W. L., La Jolla California: 4 lizards—Cocos Islands (gift)

KOOPMAN, DR. KARL F., Chicago: racoon skull—Illinois (gift); 10 reprints of publications on mammals (gift to Reprint Library, Division of Mammals)

KRAUSS, DR. N. L. H., Honolulu: 25 reptiles and amphibians—various localities (gift); 2 insects—Cuba and Ceylon (gift)

KRULIK, MICHAEL, Chicago: tadpole—Africa (gift)

KUNTZ, DR. ROBERT E., care of APO, San Francisco: 1,551 reptiles and am-

phibians—Borneo and Formosa (gift); 4 mammals—Formosa (gift)

LAMOTTE, DR. MAXIME, Paris: 13 lots of frog larvae—West Africa (exchange)

LIEM, KIM HING, Bandung, Java: 3 fishes—Java (gift)

LINCOLN PARK ZOOLOGICAL SOCIETY, Chicago: young gorilla—Africa (gift)

LOVERIDGE, ARTHUR, Saint Helena: 6 lizards—Saint Helena and Ascension (gift)

MALKIN, BORYS, Seattle: 260 mollusks—Europe (gift)

MARX, VICTOR E., Chicago: giant clam—Guam (gift)

MCCALLUM, MRS. GLADYS, Westford, Massachusetts: 39 sets of shells and other lower invertebrates—New England (gift)

McDANIELS, DR. H. E., Chicago: 3 bats—Illinois (gift)

McILHENNY, W. S., Avery Island, Louisiana: crocodile skin—locality lacking (exchange)

McKEE, DR. H. S., Canberra, Australia: 3 landsnails—New Caledonia (gift)

MENZIES, DR. J. I., Bo, Sierra Leone: 66 frogs, 3 lizards, 1 caecilian—Sierra Leone (gift)

MICHIGAN, UNIVERSITY OF, Ann Arbor: 32 fishes—United States, 59 reptiles and amphibians—various localities (exchange)

MINTON, DR. SHERMAN A., JR., Karachi, Pakistan: 4 lizards, 1 snake—Pakistan (gift)

MUSÉE ROYAL DU CONGO BELGE, Tervuren, Belgium: 10 frogs—Africa (exchange)

MUSEO CIVICO DI STORIA NATURALE "G. DORIA," Genoa, Italy: 25 reptiles and amphibians—Europe and Africa (exchange); 12 fishes—Corsica and Genoa (exchange)

MUSEO DE BIOLOGIA, UNIVERSIDAD CENTRAL DE VENEZUELA, Caracas: snake Venezuela (exchange)

MUSEUM AND ART GALLERY, Durban, Union of South Africa: bird—Africa (exchange)

MUSÉUM NATIONAL D'HISTOIRE NATURELLE, Paris: frog—Burma (exchange)

MUSEUM OF COMPARATIVE ZOOLOGY, Cambridge, Massachusetts: 2 lizards, 4 frogs, 465 mollusks—worldwide (exchange); 60 batflies—Central and South America (gift)

NABEL, MRS. BERNARD R., Naperville, Illinois: 1,200 shells—Grand Cayman Island (gift)

NATURHISTORISCHES MUSEUM WIEN, Vienna, Austria: 2 lizards—Sumatra (exchange)

NATUR-MUSEUM UND FORSCHUNG-INSTITUT "SENCKENBERG," Frankfurt-am-Main, Germany: 2 frogs—Cameroons (exchange)

ORIENTAL INSTITUTE, Chicago: 2 fishes, 65 reptiles and amphibians—Iran (gift)

PAIN, T., London: 5 landsnails—Venezuela and Colombia (exchange)

PASTEUR, DR. GEORGE, Rabat, Morocco: 2 lizards—Morocco (exchange)

PERRET, DR. JEAN-LUC, Foulassi Sangmelima, Cameroun, French West Africa: 102 frogs—French West Africa (exchange)

PFAFF, DR. REINALDO, Cartegena, Colombia: 8 marine shells—Rosario Islands (gift)

POLSKA AKADEMIA NAUK, INSTYTUT ZOOLOGICZNY, Warsaw, Poland: 42 sets of land mollusks—Eastern Europe and Crete (exchange)

POPE, CLIFFORD H., Winnetka, Illinois: snake—Illinois (gift)

POYNTON, JOHN C., Pietermaritzburg, Natal, Union of South Africa: frog—Natal (gift)

PRICE, L., Kaitaia, New Zealand: approximately 500 mollusks—Australia and New Zealand (exchange)

PRICE, DR. MANNING A., College Station, Texas: 32 batflies—Mexico (gift)

RABB, DR. GEORGE, Brookfield, Illinois: 12 salamanders, 3 snakes—Alabama (gift)

RAFFLES MUSEUM, Singapore: 2 snakes, 5 frogs—Borneo and Malaya (exchange)

REIMER, DR. WILLIAM, Gainesville, Florida: 2 salamanders, 1 turtle—Florida (gift)

RIEDEL, DR. A., Warsaw, Poland: 64 snails—Siberia (exchange)

RIJCKSMUSEUM VAN NATUURLIJKE HISTOIRE, Leiden, Netherlands: 1 landsnail—Celebes (exchange); 1 frog—Sumatra (exchange); 20 snakes—Java (exchange)

ROCKY MOUNTAIN LABORATORY, Hamilton, Montana: 99 slides of chigger mites—North, Central, and South America (gift)

ROMER, J. D., Hong Kong: 10 frogs, 10 tadpoles—Hong Kong (gift)

ROSCOE, ERNEST J., Chicago: approximately 800 terrestrial and freshwater gastropods—Utah (gift)

SABINE, TED, Chicago: 3 lizards—Costa Rica (gift)

ST. PETERSBURG SHELL CLUB, St. Petersburg, Florida: approximately 1,500 marine shells—Florida (gift)

SAN DIEGO SOCIETY OF NATURAL HISTORY, San Diego: 80 landsnails—Pacific Ocean islands (gift)

SCHEERPELTZ, DR. OTTO, Vienna, Austria: 23 rove beetles—various localities (gift)

SCHWENGEL, DR. JEANNE S., Scarsdale, New York: 1,045 mollusks—worldwide (gift)

SCRIPPS INSTITUTION OF OCEANOGRAPHY, La Jolla, California: fish—Pacific Ocean (gift)

SHEDD AQUARIUM, JOHN G., Chicago: 7 spiny lobsters—Florida (gift); 1 turtle—Bimini (gift)

SIMMONS, FRANK E., Oglesby, Texas: 10 landshells—Texas (gift)

SMITH, ALLYN, Berkeley, California: 287 snails—United States (gift)

SMITH, MRS. F. A., St. Petersburg, Florida: approximately 100 landsnails—Florida (gift)

SOKOLOFF, DR. ALEXANDER, Chazy, New York: 200 flour-beetles—United States (gift)

SOLEM, DR. AND MRS. ALAN, Chicago: 112 landsnails—Kentucky and Tennessee (gift)

SPHON, GALE, Los Angeles, California: 191 marine snails—Lower California (gift)

STANFORD UNIVERSITY, Stanford University, California: 2 frogs—Philippine Islands (exchange); 2 fishes—British Guiana (gift)

SUKHANOV, DR. V. B., Moscow: 47 lizards—Russia (exchange)

SUMMERS, RAY, Petaluma, California: 16 mollusks—various localities (gift)

TALMADGE, ROBERT, Willow Creek, California: approximately 170 mollusks—California (exchange)

TANSILL, ROBERT W., Evanston, Illinois: 7 sets of seashells—Caroline Islands (gift)

TESKEY, MRS. MARGARET, Marinette, Wisconsin: 4 snail shells—Solomon Islands and New Zealand (exchange)

TIPTON, CAPTAIN VERNON J., Fort Amador, Canal Zone: 62 mammals—Canal Zone (gift)

UNITED STATES FISH AND WILDLIFE SERVICE, Pascagoula, Mississippi: 138 lots of fishes—Gulf of Mexico and Atlantic Ocean (gift); 42 lots of fishes—off eastern coast of United States (gift)

UNITED STATES NATIONAL MUSEUM, Washington, D.C.: 135 beetles—North and Central America (exchange); 2 frogs—Siam (exchange)

UNITED STATES NAVAL MEDICAL RESEARCH UNIT No. 2, care of APO, San Francisco: 235 fishes—North Borneo (exchange)

UNIVERSIDAD NACIONAL DE COLOMBIA, Bogotá: 161 birds—Colombia (exchange)

VALLETTA, ANTHONY P., Birkirkara, Malta: 17 butterflies—Malta (gift)

WAFUL, MR. AND MRS. EDWARD E., Chicago: 43 sets of marine shells—California (gift)

WALTON, MUNROE L., Glendale, California: 15 landsnails—western United States (exchange); 30 nonmarine mollusks—California and Oregon (gift)

WHISNANT, TOM, New Orleans: lizard—Libya (gift)

WINTÉ, ERWIN C., Key Largo, Florida: 435 sets of landsnails—Cuba and West Indies (gift)

WYATT, ALEX, Chicago: 2 hermit crabs, land slug—Florida (gift)

YUNKER, DR. CONRAD E., Ottawa, Ontario, Canada: 4 lizards—Egypt (gift)

ZEIDLER, HEBERT, Cologne, Germany: (exchange)

ZIEMER, AUGUST, Evergreen Park, Illinois: 50 moths—Wisconsin (gift)

ZOOLOGICAL MUSEUM OF THE UNIVERSITY, Helsinki, Finland: 126 nonmarine mollusks—Cape Verde Islands (exchange) Helsinki, Finland: 126 non (exchange)

ZOOLOGISCH MUSEUM, Amsterdam, Netherlands: snake—Billiton (exchange); 2 frogs—Sumatra (exchange)

ZOOLOGISCHES MUSEUM BERLIN, East Berlin, Germany: frog—Togoland (exchange)

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Howe, Colonel Robert B., Birmingham, Alabama

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Reed, Dr. Charles A., Chicago

Sherff, Dr. E. E., Hastings, Michigan

Smith, Benjamin K., Chicago

Starr, Dr. Kenneth, Chicago

Wielgus, Raymond, Chicago

Willems, Dr. J. D., Chicago

Wilson, Archie F. (deceased), Summit, New Jersey

Woods, Loren P., Homewood, Illinois

RAYMOND FOUNDATION

DAHLGREN, DR. B. E., Chicago: 39 egret feathers—gift

DIVISION OF MOTION PICTURES

CORONET FILMS, Chicago: "Life in Ancient Rome" (400-foot sound/color film)—purchase

ENCYCLOPAEDIA BRITANNICA FILMS, Wilmette, Illinois: "Cave Dwellers of the Stone Age" (800-foot sound/color film)—purchase; "How Nature Protects Animals" (500-foot sound/color film)—purchase



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 Bunn, B. H.
 Bunn, C. M.
 Bunte, Mrs. Theodore W.
 Burbott, E. W.
 Burch, Clayton B.
 Burchmore, John S.
 Burd, James E.
 Burdick, Mrs. Alfred S.
 Burg, Harry
 Burgweger, Mrs.
 Meta Dewes
 Burke, Mrs. Edmund L.
 Burnell, Homer A.
 Burnham, Mrs. George
 Burns, Mrs. Randall W.
 Burrows, Robert S.
 Burry, William
 Burwell, Mrs.
 Dorothy M.
 Busch, David T.
 Bush, Earl J.
 Bush, Mrs. William H.
 Butler, Mrs. Coula P.
 Butler, George W.
 Butler, John C.
 Butler, Paul
 Butzow, Mrs. Robert C.
 Byrne, Miss Margaret H.
 Cahn, Dr. Alvin R.
 Cahn, Morton D.
 Cainkar, Louis F.
 Caine, Leon J.
 Call, Edgar J.
 Callender, Mrs.
 Joseph E.
 Calvin, Mrs. H. L.
 Camenisch, Miss
 Sophia C.
 Cameron, Mrs.
 John Wheaton
 Camp, J. Beidler
 Campbell, Donald F., Jr.
 Campbell, George V.
 Campbell, Hugh
 Campbell, John Noble
 Canby, Caleb H., Jr.
 Canman, Richard W.
 Canmann, Mrs.
 Harry L.
 Capes, Miss Alice G.
 Caples, William G.
 Capps, Dr. Joseph A.
 Carlin, Leo J.
 Carlen, Raymond N.
 Carlisle, Mrs. William T.
 Caron, O. J.
 Carqueville, Mrs. A. R.
 Carr, Robert A.
 Carr, Mrs. Robert F.
 Carroll, John A.
 Carstens, Milton Searle
 Carter, Mrs. Armistead B.
 Carter, Miss Frances
 Jeannette
 Carton, Laurence A.
 Carton, Dr. Robert W.
 Caspers, Paul
 Cassady, Thomas G.
 Castle, Alfred C.
 Castruccio, Giuseppe
 Cathcart, Silas S.
 Cederlund, R. Stanley
 Cerling, Fredolph A.
 Cernoch, Frank
 Cerny, Mrs. Jerome
 Cervenka, Carl
 Chandler, Henry P.
 Chandler, Marvin
 Chapin, William Arthur
 Chapman, Arthur E.
 Chapman, Dave
 Chatain, Robert N.
 Chazanow, George
 Cheney, Dr. Henry W.
 Chénier, Miss Mizpah
 Cherones, George D.
 Cherry, Walter L., Jr.
 Chester, W. T.
 Chiara, Anthony R.
 Childs, Mrs. George W.
 Childs, Leonard C.
 Chilgren, Arthur D.
 Chinlund, Miss Ruth E.
 Chorn, William G.
 Christian, John F.
 Christiansen, Dr. Henry
 Christopher, Dr. G. L.
 Christy, Dr. Harold W.
 Chulock, Willmar A.
 Churan, Charles A.
 Churan, Miss Jessie
 Clark, Mrs. Alice Dargan
 Clark, Mrs. Edward S.
 Clark, Edwin H.
 Clarke, Charles F.
 Clarke, Ernest E.
 Clarke, Dr. T. Howard
 Clay, John
 Clement, Howard W.
 Clement, James W.
 Clements, George L.
 Clifford, Fred J., Jr.
 Clifford, J. S.
 Clinch, Duncan L.
 Cline, Lyle B.
 Clonick, Abraham J.
 Clonick, Herbert J.
 Clonick, Seymour E.
 Close, James W.
 Clow, Mrs. Harry B.
 Cluxton, Dr.
 Harley E., Jr.
 Coale, William F., Jr.
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 Coath, V. W.
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 Cochran, John L.
 Coey, David R.

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 Cole, Sidney I.
 Coleman, Clarence L., Jr.
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 Coleman, Mrs. John
 Coleman, Loring W.
 Coleman, Marvin H.
 Collias, Philip J.
 Collins, Beryl B.
 Collison, E. K.
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 Colvin, Miss Jessie
 Colwell, Clyde C.
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 Arthur H.
 Compton, D. M.
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 Conover, Miss
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 Cooper, Samuel
 Cooper, S. Robert
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 Costanzo, Dr.
 Vincent A., Jr.
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 Cotton, Eugene
 Coulson, John S.
 Cowan, Ralph
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 Cowen, Maurice L.
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 Crawford, W. F.
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 Cromwell, Miss
 Juliette Clara
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 Cryor, Robert E.
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 Culmer, Dr. Charles U.
 Culver, Sydney K.
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 Cummings, Edward M.
 Cummings, Mrs.
 Frances S.
 Cuneo, John F.
 Cunningham, J. Lester
 Cunningham, Seymour S.
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 Guthrie, Jr.
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 Cutter, Charles F.
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 Irwin Paul
 Dahlberg, Wendell
 Daily, Richard
 Daley, Harry C.
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 Dalmar, Hugo, Jr.
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 Danne, William C., Jr.
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 Dapples, George H.
 D'Aquila, George
 Darbo, Howard H.
 Darby, John H.
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 Davies, Trevor L.
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 Davis, DeForest Paine
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 Davis, Dr. Loyal
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 Diller, Theodore C.
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 Dimmer, Miss
 Elizabeth G.
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 Dixon, Wesley M., Jr.
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 Millington

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Douglass, Mrs.
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Douglass, Kingman
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Elliott, Frank R.
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Ellis, Howard
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Elvgren, Gillette A.
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Embree, J. W., Jr.
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Engberg, Miss Ruth M.
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English, William L.
Engstrom, Harold
Entsminger, Samuel E.
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Ericsson, Dewey A.
Ericsson, Walter H.
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Evans, Vernon K.
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Howard
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Edward R.
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Fiske, Kenneth M.
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Fitz Simmons, Dr. J.
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Fletcher, Mrs. Mildred C.
Flinn, Walter H., Jr.
Flint, George M.
Florsheim, Harold M.
Florsheim, Irving S.
Flowers, Dr. Vladimir C.
Foell, W. J.
Follansbee, Rogers
Follett, Dwight
Folonie, Mrs. Robert J.
Folsom, Mrs. William R.
Foote, Mrs. Harley T.
Forch, Mrs. John L., Jr.
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Foreman, Mrs. Alfred K.
Foreman, Edwin G., Jr.
Foreman, Harold E.
Forgan, Mrs. J. Russell
Forgan, Robert D.

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- Forman, Charles
 Forster, J. George
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 Foster, Robert S.
 Fox, Clarence E.
 Fox, Jacob Logan
 Fox, Dr. Paul C.
 Franche, Mrs. D. C., III
 Frank, Arthur A.
 Franke, Allyn J.
 Frankel, Jones B.
 Frankel, Louis
 Frankenstein, Lester E.
 Frankenstein, William B.
 Franklin, G. K.
 Frasier, Richard C.
 Frazer, Mrs. George E.
 Freda, Dr. Vincent C.
 Frederick, Mrs.
 Clarence L.
 Freeto, Clarence E.
 Freiler, Abraham J.
 Frenier, A. B.
 Freudenthal, G. S.
 Freund, Mrs. I. H.
 Freund, Mrs. J. Dennis
 Frey, Charles Daniel
 Freyn, Henry J.
 Fridstein, Meyer
 Friedberg, Dr. Stanton A.
 Friedlander, William
 Friedman, Norman B.
 Friedman, Raphael N.
 Fritsch, Miss Josephine
 Frye, W. P.
 Frystak, A. J.
 Fucik, E. Montford
 Fuller, Mrs. Gretta
 Patterson
 Fuller, J. E.
 Fuller, Judson M.
 Fullerton, Thomas
 Fulton, Paul C.

 Gabriel, Adam
 Gaertner, William
 Gale, Willis
 Galgano, John H.
 Gall, Frank
 Gall, Harold J. F.
 Gall, Harry T.
 Gallup, Rockwell L.
 Galt, Mrs. Anne
 Rickcords
 Galt, Mrs. A. T.
 Gamble, D. E.
 Gamble, E. Ross
 Gamm, Dr. Stanford R.
 Garcia, José
 Garden, Hugh M. G.

 Gardner, Addison L., Jr.
 Gardner, F. Sewall
 Gardner, Frederick D.
 Gardner, Henry A.
 Gardner, Henry K.
 Gardner, Robert A., Jr.
 Garen, Joseph F.
 Garrison, Dr. Lester E.
 Garvey, W. H., Jr.
 Gary, Theodore S.
 Gates, Mrs. L. F.
 Gawthrop, H. H.
 Gay, Rev. A. Royall
 Gebhardt, Alfred E.
 Gee, James W.
 Gehl, Dr. W. H.
 Gehrman, Felix
 Geiling, Dr. E. M. K.
 Geist, Herbert
 Geittmann, Dr. W. F.
 Geldmeier, Dr. Erwin F.
 Gellert, Donald N.
 Gensburg, Samuel H.
 Gentry, Veit
 Gerding, R. W.
 Gerk, G. F.
 German, Fred W.
 Gerngross, Mrs. Leo
 Gettelman, Mrs.
 Sidney H.
 Gettleman, Arthur
 Gettleman, Frank E.
 Getz, James R.
 Getz, Mrs. James R.
 Getzoff, E. B.
 Gibbs, A. E.
 Gibbs, Richard F.
 Gibson, Paul
 Gibson, Truman K., Jr.
 Gidwitz, Alan K.
 Gidwitz, Victor E.
 Gidwitz, Willard
 Giffey, Miss Hertha
 Gifford, Mrs.
 Frederick C.
 Gilchrist, Mrs. John F.
 Gilchrist, Mrs. William
 Albert
 Giles, Mrs. Guy H.
 Giles, John O.
 Gillett, Frank G.
 Gillette, Mrs. Ellen D.
 Gilmore, Dr. John H.
 Gimbel, J. W., Jr.
 Ginther, Miss Minnie C.
 Giryotas, Dr. Emelia J.
 Gits, Mrs. Remi J., Sr.
 Glade, David Bruce
 Glaescher, Mrs. G. W.
 Glaman, Miss Johanna C.
 Glasner, Rudolph W.

 Glasser, Joshua B.
 Glassner, James J.
 Glick, Louis G.
 Gluck, Gerson, I.
 Glore, Robert Hixon
 Gober, Miss Martha P.
 Godley, Mrs. John M.
 Goes, Mrs. Arthur A.
 Golber, David
 Goldberg, Charles K.
 Goldblatt, Joel
 Golding, Robert N.
 Goldsby, Fred L.
 Goldstein, Dr. Abraham
 Goldstein, Dr. Helen L.
 Button
 Goldstein, Nathan S.
 Goldy, Walter I.
 Goltra, Mrs. William B.
 Gomberg, Dr. Harry
 Goodfriend, S. L.
 Goodman, Benedict K.
 Goodman, Mrs. Milton F.
 Goodman, William E.
 Goodson, Orr
 Goodwin, George S.
 Gopp, Leonard W.
 Gordon, Colin S.
 Gordon, Harold J.
 Gordon, Leslie S.
 Gordon, Dr. Richard J.
 Gordon, Mrs. Robert D.
 Gorrell, Mrs. Warren
 Gottlieb, Frederick M.
 Gould, Jay
 Gould, Mrs. June K.
 Grade, Joseph Y.
 Graham, Andrew C.
 Graham, Mrs. Arthur R.
 Graham, David
 Graham, Douglas
 Graham, E. V.
 Graham, Miss
 Margaret H.
 Gramm, Mrs. Helen
 Granger, Mrs. Lillian M.
 Grant, Gordon B.
 Grant, James D.
 Grant, John G.
 Graves, Austin T.
 Graves, Howard B.
 Grawoig, Allen
 Gray, A. S.
 Gray, Dr. Earle
 Gray, Edward
 Gray, Philip S.
 Greeley, Joseph M.
 Green, Howard E.
 Green, Michael
 Greenburg, Dr. Ira E.
 Greene, Henry E.

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- Greene, Howard T.
Greenebaum, Robert J.
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Greenman, Mrs. Earl C.
Greenwald, Herbert S.
Gregg, Clarence T.
Gregory, James J.
Gregory, Stephen S., Jr.
Grentzner, C. A.
Gressens, Otto
Grey, Dr. Dorothy
Griffenhagen, Mrs. Edwin O.
Griffith, Mrs. Carroll L.
Griffith, Mrs. William
Grimes, Don R.
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Grizzard, James A.
Groak, Irwin D.
Grohe, Robert F.
Gronkowski, Rev. C. I.
Groot, Cornelius J.
Grosberg, Charles
Grossman, Frank I.
Grote, Russell H.
Grotowski, Mrs. Leon
Grunow, Mrs. William C.
Guenzel, Paul W.
Guest, Ward E.
Guetzkow, Harold S.
Guldager, Carl D.
Gurley, Miss Helen K.
Gustafson, Carl
Gustafson, Carl I.
Gustafson, Gilbert E.
Gustafson, Mrs. Winfield A.
Guthrie, Mrs. Eleanor Y.
Guthrie, S. Ashley
Gwinn, R. P.
- Haas, Albert F.
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Hadley, Mrs. Edwin M.
Haedike, Edward J.
Hagen, Mrs. Daise
Hahn, Arthur
Hailand, Arthur G.
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Hajcek, Rudolph F.
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Hales, Burton W., Jr.
Hall, Edward B.
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Halligan, W. J.
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Halverstadt, Romaine M.
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- Hamm, Fred B.
Hammaker, Paul M.
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Hand, George W.
Hanelin, Dr. Henry A.
Hann, J. Roberts
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Hansen, Jacob W.
Hanson, Mrs. Norman R.
Harder, John H.
Harders, Mrs. Flora
Rassweiler
Hardin, George D.
Harding, Miss Addie Clark
Hardy, Mrs. L. Martin
Harig, Herbert
Harmon, Foster W.
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Harper, Alfred C.
Harrington, David L.
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Harris, David J.
Harris, Herman
Harris, Gordon L.
Harris, Stanley G.
Harrison, Carter H., Jr.
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Hart, Max A.
Hartmann, A. O.
Hartung, George, Jr.
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Harvey Byron
Harvey, Byron, III
Harvey, Daggett
Harvey, Richard M.
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Harwood, Thomas W.
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Hassmer, Joseph L.
Haugen, Bernhart
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Hazlett, Mrs. William H.
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Healy, Thomas H.
Healy, Vincent Jerrems
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Heaton, Harry E.
Heaton, Herman C.
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Hecht, Myron A.
Hedin, Walter L.
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Hefner, Adam
Heggie, Miss Helen
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Heinzelman, Karl
Heinzen, Mrs. Carl
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Heldmaier, Miss Marie
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Helman, George A.
Hellyer, Walter
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Hermann, Grover M.
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Herron, Mrs. Oliver L.
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Hertzberg, Lawrence
Herz, Mrs. Alfred
Herz, J. H.
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Hirsch, LeRoy E.
Hirtenstein, Robert E.
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Elizabeth
Hoffman, Edward
Hempstead
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Holleb, A. Paul
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Hollins, Gerald
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Holloway, J. L.
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Edward C.
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Holmes, J. A.
Holmes, William
Holmes, William N.
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Holt, McPherson
Holub, Anthony S.
Holzheimer, Carl
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Hoover, H. Earl
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Dodge, Jr.
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Horween, Isidore
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Dean
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Brookes
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Hunding, B. N.
Hunker, Robert W.
Hunt, George L.
Hunt, Jarvis
Hunt, Miss Ruth
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Hunter, Lemuel B.
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Hust, George
Huszagh, Ralph D.
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Hutchinson, Foye P.
Hutchinson, Samuel S.
Huth, Frank D.
Hypes, William P.
- Ickes, Raymond W.
Ickes, Mrs. Wilmarth
Idelman, Bernard
Igoe, Michael L.
Igoe, Michael L., Jr.
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Ilg, Robert A.
Ilg, Paul F.
- Illich, George M., Jr.
Ingalls, Allin K.
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Ingersoll, Mrs. S. L.
Ingram, Frank H.
Inlander, N. Newton
Inlander, Samuel
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Irvine, George L.
Isaacs, Roger D.
Isham, George S.
Isham, Henry P.
Isham, Henry P., Jr.
Isom, W. R.
Ives, Clifford E.
Ives, George R.
- Jackson, Allan
Jackson, Archer L.
Jackson, Byrne A.
Jackson, Mrs. W. A.
Jacobi, Miss Emily C.
Jacobs, Aaron M.
Jacobs, Nathan E.
Jacobs, Julius
Jacobs, Mrs. Walter H.
Jacobs, Walter L.
Jacobson, A. J.
Jacobson, Arent J.
Jacobson, Raphael
Jahn, Reinhardt H.
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James, Walter C.
Jameson, Clarence W.
Jancosek, Thomas A.
Jansey, Dr. Felix
Janson, Dr. C. Helge M.
Janusch, Fred W.
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Jeffers, Howard F.
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Jessen, Floyd E.
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Jetzinger, David
Jirgal, John
Jirka, Dr. Frank J.
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Johnson, Alvin O.
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Johnson, Herbert M.
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 Jones, Miss Susan E.
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 Julian, Dr. Ormand C.
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 Kalnitz, Arnold B.
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 Kamins, Dr. Maclyn M.
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 Kanter, Jerome J.
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 Kribben, Delafield
 Krider, E. A.
 Kritzer, Richard W., Sr.
 Kroch, Carl A.
 Kroehler, Kenneth
 Kroeschell, Robert A.
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Leland, Mrs. Rosco G.
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Leslie, John H.
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Robert
Levering, J. E.
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Levitant, Benjamin
Levitt, Dr. Le Roy P.
Levy, Alexander M.
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Loomis, Reamer G.
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Mac Cowan, Hervey L.
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Macomb,
J. deNavarre, Jr.
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 David Bremner
 Maher, Mrs. D. W.
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 Major, Ross O.
 Majors, Mrs. B. S.
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 Mandel, Miss Florence
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 Marchant, Miss Lilian
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 Herbert I.
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 Gilbert H.
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 Martin, George F.
 Martin, Samuel H.
 Martin, Wells
 Marx, Adolf
 Marx, Victor E.
 Marzluff, Frank W.
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 Mason, Arnold D. K.
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 Masse, B. A.
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 Mathesius, Mrs. Walther
 Mathis, Allen W.
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 Maurer, Dr. Siegfried
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 Mayer, Leo
 Mayer, Oscar G.
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 Clara L.
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 McClun, John M.
 McCormick, Mrs.
 Chauncey
 McCormick, Howard H.
 McCormick, Lenader J.
 McCormick,
 Robert H., Jr.
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 McCrea, Mrs. W. S.
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 McCurry, Paul D.
 McCutcheon, Mrs.
 John T.
 McDavid, Raven I., Jr.
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 McDonald, E. F., Jr.
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 McDougal, C. Bouton
 McDougal, David B.
 McDougal, Mrs.
 Edward D., Jr.
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 McDougal, Mrs. Mary
 McDougal, Mrs. Robert
 McErlean, Charles V.
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 McGurn, Matthew S.
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 McKellar, Donald
 McKenna, Charles H.
 McKinney, Mrs. Hayes
 McKittrick, C. E.
 McLennan, Mrs.
 Donald R., Sr.
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 McMillan, John
 McMillan, W. B.
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 McNamara, Robert C.
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 McPherson, Cleo Edwin
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 Ruth M.
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 Medsker, Dr. Ora L.
 Meers, Henry W.
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 Mehn, Dr. W. Harrison
 Meidell, Harold
 Melcher, George Clinch
 Melody, Miss Margaret
 Melnick, Leopold B.
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 Merricks, Mrs. James W.
 Merrill, Miss Marion E.
 Mesenbrink, Paul H.
 Metcalfe, Mrs. Charles
 Mettenet, Francis X.
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 Metz, Carl A.
 Metzger, Roswell W.
 Meyer, Mrs. A. H.
 Meyer, Charles A.
 Meyer, Dr. Charles A.
 Meyer, Charles Z.
 Meyerhoff, A. E.
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 Meyers, Jonas
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 Michaels, Everett B.
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 Miller, C. R.
 Miller, Creighton S.
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 Miller, Frank A.
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 Beaupre
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Moore, Oscar L.
Moore, Paul
Moore, Philip Wyatt
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Morey, Dr. Charles W.
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Morgan, Miss
Elizabeth W.
Morgan, K. P.
Moroni, Aldo L.
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Morrison, James C.
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Moyer, Mrs. Paul S.
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Charles
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Wilbur C.
Munnecke, Wilbur C.
- Munroe, Moray
Munroe, Roy B.
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Murphy, O. R.
Murphy, Robert E.
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- Nachman, H. S.
Naess, Sigurd E.
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Nardi, Victor G.
Nathan, Joseph E.
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Nebel, Herman C.
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Nelson, Charles G.
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Nelson, Victor W.
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Neumann, Arthur E.
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Newberger, Joseph
Michael
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O'Connell, Edmund
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Offield, Wrigley
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Franklin
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 Perkins, L. B.
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 Perlman, Henry
 Perlman, Raymond L.
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 Puttkammer, E. W.
 Puzey, Russell V.
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 Radford, Mrs. W. A., Jr.
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 Howard D.
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 Marie Katherine
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 Renouf, William
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 Wang, Dr. S. Y.
 Wanger, David E., Jr.
 Wanzer, H. Stanley
 Warady, Dr. Seymore C.
 Ward, Eugene R.
 Ward, Granville
 Ward, Mrs. Herbert S.
 Ward, William Parker
 Warde, Frederick A.
 Wardwell, Allen
 Wardwell, Henry
 Ware, James R.
 Ware, Willis C.
 Warman, Winfield C.
 Warner, Mason
 Warner, Peter B.
 Warren, Richard C.
 Warshawsky, Roy I.
 Warshell, Henry L.
 Warwick, O. H.
 Was, Dr. Harold H.
 Washburn, Dr.
 Kenneth C.
 Wasson, Theron
 Waterbury, Donald O.
 Waterfield, John R.
 Waterman, Mrs. Alex H.
 Waterman, French
 Watling, John
 Watrons, David C.
 Watson, D. R.
 Watson, Harry P.
 Watson, Norman E.
 Watts, Amos H.
 Watts, G. W.
 Watts, James A.
 Watts, Dr. Walter F.
 Waud, Morrison
 Weatherby, George W.
 Weathers, Everett A.
 Weaver, Sheldon A.
 Webb, Dr. A. C.
 Webb, Dr. J. Lewis
 Webber, Mrs. Harriet P.
 Weber, James E.
 Weber, Miss Laura M.
 Weber, Paul W.
 Webster, Dr. Augusta
 Webster, N. C.
 Webster, Wesley G.
 Wedereit, Gene
 Weeks, Harrison S.
 Weick, George T.
 Weidert, William C.
 Weigel, George K.
 Weil, Mrs. Carl H.
 Weil, David Maxwell
 Weiner, Aaron B.
 Weiner, Charles
 Weinress, Morton
 Weinstein, Harold
 Weintroub, Benjamin
 Weisbrod, Mrs.
 H. Johnstone
 Weisdorf, Dr. William
 Weiser, Donald K.
 Weisman, Mrs. Nat
 Weiss, Dr. Arthur M.
 Weiss, Dr. Leon H.
 Weiss, Dr. Marvin A.
 Weiss, Louis J.
 Weiss, Norman L.
 Weissman, Dr. Irving
 Weldon, Richard H.
 Welfeld, Marvin J.
 Wells, Sidney
 Welsh, Vernon M.
 Wendt, Mrs. M. R.

ANNUAL MEMBERS (CONTINUED)

| | | |
|--------------------------|--------------------------|-------------------------|
| Wenner, Mrs. David, Jr. | Williamson, Harold A. | Woodall, Lloyd |
| Wenninger, William C. | Willis, George H. | Woods, Dr. A. W. |
| Werelius, Dr. Carl Y. | Willis, Ivan L. | Woodson, William T. |
| Werner, Mrs. A. J. | Willy, Dr. Ralph G. | Woodward, Miss |
| Werner, Dr. Howard L. | Wilsey, Dr. H. Lawrence | Mary H. |
| Wernstrom, Dr. Gurli | Wilson, Allen | Woolard, Francis C. |
| Werrenrath, Reinald, Jr. | Wilson, | Woopsy, Max |
| Wessling, Richard | Christopher W., Jr. | Workman, S. L. |
| West, Arthur | Wilson, Dr. Earle E. | Works, Nelson C., Jr. |
| West, James D. | Wilson, E. W. | Worthington, La Grange |
| West, Lawrence J. | Wilson, Harold E. | Worthy, James C. |
| West, Richard H. | Wilson, Mrs. John H. | Wray, Franklin C. |
| Westbrook, Charles H. | Wilson, Joseph J. | Wray, Glenn |
| Westerhold, Mrs. | Wilson, Robert M. | Wreath, Robert L. |
| Lenora C. | Wilson, Mrs. Roger V. | Wren, Dr. Charles W. |
| Westfall, Dr. Robert E. | Wilson, Miss S. Edna | Wright, Benjamin D. |
| Wetherell, Warren | Windchy, Mrs. | Wright, John A. |
| Weyforth, B. Stuart, Jr. | Frederick O. | Wright, C. G. |
| Whall, Arthur L. | Winkenweder, V. O. | Wright, Dr. F. Howell |
| Wharton, Mrs. | Winkler, Edward | Wright, Miss |
| Joseph P., Jr. | Winograd, Dr. Alvin M. | Margaret J. |
| Wheary, Warren | Winston, Farwell | Wrightson, William F. |
| Wheaton, David | Winter, Mrs. Gibson | Wujcik, Robert |
| Wheeler, Mrs. Seymour | Winter, Ted | Wulf, Miss Lydia |
| Wheeler, W. L. | Winterbotham, John R. | Wybel, L. E. |
| White, Gordon | Wise, John P. | Wydra, Henry |
| White, John G. | Wise, Richard H. | Wyne, Walter |
| White, Marshall | Wise, Dr. Sidney S. | Wynne, Mrs. Lloyd |
| White, Miss Naomi | Wiseman, William P. | |
| White, Dr. Michael S. | Wishingrad, Dr. Lester | |
| White, Dr. Philip C. | Wiss, Dr. Edward J. | Xelowski, Dr. Thad |
| White, Philip M. | Withall, H. H. | |
| White, Dr. Ralph P. | Withall, Mrs. William E. | Yacullo, Dr. William A. |
| White, Richard H. | Witherell, James | Yager, Richard Sidney |
| Whitelock, John B. | Witte, Lester | Yavitz, Sidney M. |
| Whiteway, Mrs. R. E. | Witty, Dr. Drake R. A. | Yellin, Morris |
| Whiting, Lawrence H. | Wlocholl, Arthur | Yeoman, George W. |
| Whitsell, Dr. F. M. | Wojnarowsky, Dr. | Yeretsky, Norman M. |
| Whittaker, Robert B. | Emilia | Yesnick, Dr. Louis |
| Wible, R. R. | Wolf, Albert M. | Ylvsaker, L. |
| Wickersham, Mrs. Lucille | Wolf, C. W. | Yntema, Dr. Leonard F. |
| Wiggins, Kenneth M. | Wolf, Morris E. | Yohe, C. Lloyd |
| Wilby, A. C. | Wolf, Orrin E. | Young, C. S. |
| Wilder, E. P., Jr. | Wolf, Albert M. | Young, George B. |
| Wiles, Bradford | Wolfe, Edward | Young, Rollin R. |
| Wilhelm, Eugene A. | Wolfe, Hubert J. | Young, William T., Jr. |
| Wilhelm, Mrs. Frank E. | Wolfson, Marvin J. | Youngquist, C. Harry |
| Wilkes, Mrs. R. M. | Wolfson, Max J. | Youngren, W. W. |
| Willard, Nelson W. | Wolfson, Rudolph A. | |
| Williams, Albert D. | Wood, A. E. | Zabor, Dr. Robert C. |
| Williams, Bennett | Wood, Alexander M. | Zaczek, Miss |
| Williams, Miss Diane | Wood, Arthur M. | Genevieve A. |
| Williams, Mrs. | Wood, C. A. | Zatz, Sidney R. |
| Ednyfed H. | Wood, Harold F. | Zehr, Ores E. |
| Williams, Dr. Jasper F. | Wood, Kenward T. | Zeiss, Dr. Fred R. |
| Williams, Lynn A. | Wood, Philip J. | Zeitlin, Dr. N. S. |
| Williams, Dr. O. B. | Wood, Reverend | Zeitlin, Samuel E. |
| Williams, Dr. Philip C. | Walter S. | Zekman, Dr. Theodore N. |
| Williams, Ralph E. | Wood, William A. | Zelinsky, Mrs. S. F. |
| Williams, R. Arthur | Wood, Mrs. William J. | Zeller, Charles B. |
| Williams, Robert J. | | Ziegler, Dr. George E. |

ANNUAL MEMBERS (CONTINUED)

Zielinski, Dr. Victor J.
Zigler, John D.
Zimmerman, Austin M.
Zimmerman, Dr.
Harold W.
Zimmerman, Herbert

Zimmerman, Irving
Zimmerman, Dr. Nathan
Zimmerman, Otto H.
Zimmermann, Frank O.
Zimmermann, Mrs. P. T.
Zisook, Edmond N.

Zitz, Martin
Zitzewitz, Arthur F.
Zoll, William F.
Zolton, Dr. Joseph
Zusser, Maurice M.
Zylstra, Clifford H.

DECEASED 1960

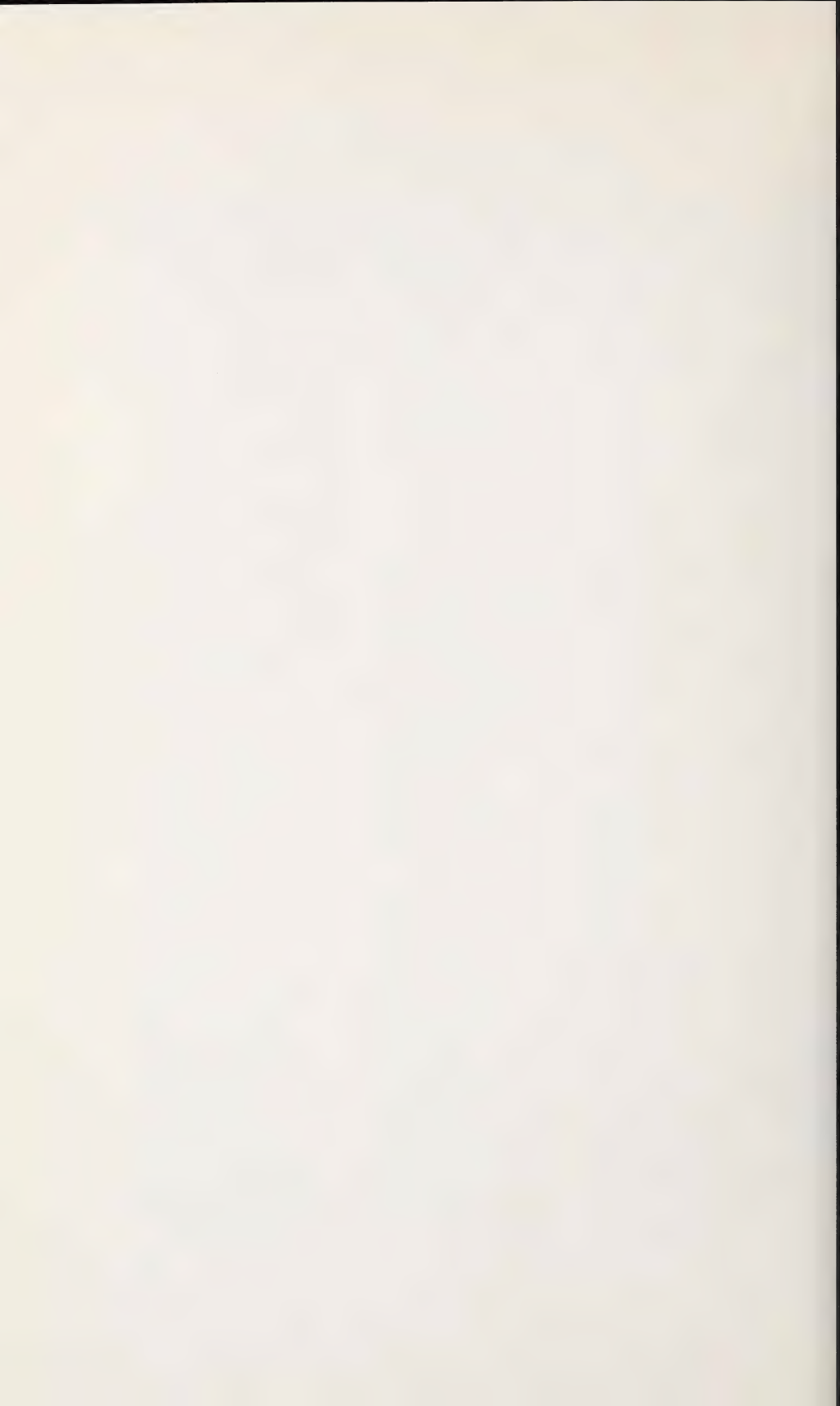
Allyn, Arthur C.
Atlass, H. Leslie
Benaron, Mrs.
Harry B. W.
Bender, Mrs. Charles
Benjamin, Mrs. Bert R.
Berger, R. O.
Bowles, H. S.
Breen, James W.
Buckley, Homer J.

Gatzert, Mrs. August
Gibbs, George M.
Hart, James A.
Hedley, Arthur H.
Henner, Dr. Robert
Jarecki, Robert A.
Johnson, Edward F.
Kratsch, Charles

Lindeman, John H.
Mallegg, O. O.
Mentzer, John P.
Overmeyer, Franklin R.
Roche, John Pierre

Rogers, Mrs. J. B.
Stafford, Richard W.
Stebler, W. J.
Stone, Dr. F. Lee
Strand, Clifford E. R.
Streitmann, Albert P.
Sullivan, Frank W.
Thal, Hugo J.
Thal, Mrs. Hugo J.
Vanderbilt, Mrs. Grace C.
Van Schaick, Mrs.
Ethel R.
Waters, Dr. Carl F.
Wells, D. P.
Wing, Wallace E.
Woodward, George

Callan, T. J.
Church, Freeman S.
Cohen, Louis L.
Deneen, Miss Florence
Eisenstein, Harold L.
Ewart, Cyril



ARTICLES OF INCORPORATION
AMENDED BY LAWS



Articles of Incorporation

STATE OF ILLINOIS

DEPARTMENT OF STATE

WILLIAM H. HINRICHSSEN, *Secretary of State*

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETING:

Whereas, a Certificate duly signed and acknowledged having been filed in the office of the Secretary of State, on the 16th day of September, A.D. 1893, for the organization of the COLUMBIAN MUSEUM OF CHICAGO, under and in accordance with the provisions of "An Act Concerning Corporations," approved April 18, 1872, and in force July 1, 1872, and all acts amendatory thereof, a copy of which certificate is hereto attached.

Now, therefore, I, William H. Hinrichsen, Secretary of State of the State of Illinois, by virtue of the powers and duties vested in me by law, do hereby certify that the said COLUMBIAN MUSEUM OF CHICAGO is a legally organized Corporation under the laws of this State.

In Testimony Whereof, I hereto set my hand and cause to be affixed the Great Seal of State. Done at the City of Springfield, this 16th day of September, in the year of our Lord one thousand eight hundred and ninety-three, and of the Independence of the United States the one hundred and eighteenth.

W. H. HINRICHSSEN,
Secretary of State.

[SEAL]

TO HON. WILLIAM H. HINRICHSSEN,

SECRETARY OF STATE:

SIR:

We, the undersigned citizens of the United States, propose to form a corporation under an act of the General Assembly of the State of Illinois, entitled "An Act Concerning Corporations," approved April 18, 1872, and all acts amendatory thereof; and that for the purposes of such organization we hereby state as follows, to-wit:

1. The name of such corporation is the "COLUMBIAN MUSEUM OF CHICAGO."

2. The object for which it is formed is for the accumulation and dissemination of knowledge, and the preservation and exhibition of objects illustrating Art, Archaeology, Science and History.

3. The management of the aforesaid museum shall be vested in a Board of FIFTEEN (15) TRUSTEES, five of whom are to be elected every year.

4. The following named persons are hereby selected as the Trustees for the first year of its corporate existence:

Edward E. Ayer, Charles B. Farwell, George E. Adams, George R. Davis, Charles L. Hutchinson, Daniel H. Burnham, John A. Roche, M. C. Bullock, Emil G. Hirsch, James W. Ellsworth, Allison V. Armour, O. F. Aldis, Edwin Walker, John C. Black and Frank W. Gunsaulus.

5. The location of the Museum is in the City of Chicago, County of Cook, and State of Illinois.

(Signed)

George E. Adams, C. B. Farwell, Sidney C. Eastman, F. W. Putnam, Robert McCurdy, Andrew Peterson, L. J. Gage, Charles L. Hutchinson, Ebenezer

Buckingham, Andrew McNally, Edward E. Ayer, John M. Clark, Herman H. Kohlsaat, George Schneider, Henry H. Getty, William R. Harper, Franklin H. Head, E. G. Keith, J. Irving Pearce, Azel F. Hatch, Henry Wade Rogers, Thomas B. Bryan, L. Z. Leiter, A. C. Bartlett, A. A. Sprague, A. C. McClurg, James W. Scott, Geo. F. Bissell, John R. Walsh, Chas. Fitzsimmons, John A. Roche, E. B. McCagg, Owen F. Aldis, Ferdinand W. Peck, James H. Dole, Joseph Stockton, Edward B. Butler, John McConnell, R. A. Waller, H. C. Chatfield-Taylor, A. Crawford, Wm. Sooy Smith, P. S. Peterson, John C. Black, Jno. J. Mitchell, C. F. Gunther, George R. Davis, Stephen A. Forbes, Robert W. Patterson, Jr., M. C. Bullock, Edwin Walker, George M. Pullman, William E. Curtis, James W. Ellsworth, William E. Hale, Wm. T. Baker, Martin A. Ryerson, Huntington W. Jackson, N. B. Ream, Norman Williams, Melville E. Stone, Bryan Lathrop, Eliphalet W. Blatchford, Philip D. Armour.

STATE OF ILLINOIS }
COOK COUNTY } ss.

I, G. R. MITCHELL, a NOTARY PUBLIC in and for said County, do hereby certify that the foregoing petitioners personally appeared before me and acknowledged severally that they signed the foregoing petition as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this 14th day of September, 1893.

[SEAL] G. R. MITCHELL,
NOTARY PUBLIC, COOK COUNTY, ILL.

CHANGE IN ARTICLE 1

Pursuant to a resolution passed at a meeting of the corporate members held the 25th day of June, 1894, the name of the COLUMBIAN MUSEUM was changed to FIELD COLUMBIAN MUSEUM. A certificate to this effect was filed June 26, 1894, in the office of the Secretary of State for Illinois.

CHANGE IN ARTICLE 1

Pursuant to a resolution passed at a meeting of the corporate members held the 8th day of November, 1905, the name of the FIELD COLUMBIAN MUSEUM was changed to FIELD MUSEUM OF NATURAL HISTORY. A certificate to this effect was filed November 10, 1905, in the office of the Secretary of State for Illinois.

CHANGE IN ARTICLE 3

Pursuant to a resolution passed at a meeting of the corporate members held the 10th day of May, 1920, the management of FIELD MUSEUM OF NATURAL HISTORY shall be invested in a Board of TWENTY-ONE (21) TRUSTEES, who shall be elected in such manner and for such time and term of office as may be provided for by the By-Laws. A certificate to this effect was filed May 21, 1920, in the office of the Secretary of State for Illinois.

CHANGE IN ARTICLE 1

Pursuant to a resolution passed at a meeting of the corporate members held the 15th day of November, 1943, the name of FIELD MUSEUM OF NATURAL HISTORY was changed to CHICAGO NATURAL HISTORY MUSEUM. A certificate to this effect was filed November 23, 1943, in the office of the Secretary of State for Illinois.

Amended By-Laws

DECEMBER 1958

ARTICLE I

MEMBERS

SECTION 1. Members shall be of twelve classes, Corporate Members, Honorary Members, Patrons, Corresponding Members, Benefactors, Contributors, Life Members, Non-Resident Life Members, Associate Members, Non-Resident Associate Members, Sustaining Members, and Annual Members.

SECTION 2. The Corporate Members shall consist of the persons named in the articles of incorporation, and of such other persons as shall be chosen from time to time by the Board of Trustees at any of its meetings, upon the recommendation of the Executive Committee; provided, that such person named in the articles of incorporation shall, within ninety days from the adoption of these By-Laws, and persons hereafter chosen as Corporate Members shall, within ninety days of their election, pay into the treasury the sum of Twenty Dollars (\$20.00) or more. Corporate Members becoming Life Members, Patrons or Honorary Members shall be exempt from dues. Annual meetings of said Corporate Members shall be held at the same place and on the same day that the annual meeting of the Board of Trustees is held.

SECTION 3. Honorary Members shall be chosen by the Board from among persons who have rendered eminent service to science, and only upon unanimous nomination of the Executive Committee. They shall be exempt from all dues.

SECTION 4. Patrons shall be chosen by the Board upon recommendation of the Executive Committee from among persons who have rendered eminent service to the Museum. They shall be exempt from all dues, and, by virtue of their election as Patrons, shall also be Corporate Members.

SECTION 5. Any person contributing or devising the sum of One Hundred Thousand Dollars (\$100,000.00) in cash, or securities, or property to the funds of the Museum, may be elected a Benefactor of the Museum.

SECTION 6. Corresponding Members shall be chosen by the Board from among scientists or patrons of science residing in foreign countries, who render important service to the Museum. They shall be elected by the Board of Trustees at any of its meetings. They shall be exempt from all dues and shall enjoy all courtesies of the Museum.

SECTION 7. Any person contributing to the Museum One Thousand Dollars (\$1,000.00) or more in cash, securities, or material, may be elected a Contributor of the Museum. Contributors shall be exempt from all dues and shall enjoy all courtesies of the Museum.

SECTION 8. Any person paying into the treasury the sum of Five Hundred Dollars (\$500.00) at any one time, shall, upon the unanimous vote of the Board, become a Life Member. Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to members of the Board of Trustees. Any person residing fifty miles or more from the city of Chicago, paying into the treasury the sum of One Hundred Dollars (\$100.00) at any one time, shall, upon the unanimous vote of the Board, become a Non-Resident Life Member. Non-Resident Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to members of the Board of Trustees.

SECTION 9. Any person paying into the treasury of the Museum the sum of One Hundred Dollars (\$100.00) at any one time, shall, upon the vote of the Board,

become an Associate Member. Associate Members shall be exempt from all dues, and shall be entitled to tickets admitting Member and members of family, including non-resident home guests; all publications of the Museum issued during the period of their membership, if so desired; reserved seats for all lectures and entertainments under the auspices of the Museum, provided reservation is requested in advance; and admission of holder of membership and accompanying party to all special exhibits and Museum functions day or evening. Any person residing fifty miles or more from the city of Chicago, paying into the treasury the sum of Fifty Dollars (\$50.00) at any one time, shall, upon the unanimous vote of the Board, become a Non-Resident Associate Member. Non-Resident Associate Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to Associate Members.

SECTION 10. Sustaining Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of Twenty-five Dollars (\$25.00), payable within thirty days after notice of election and within thirty days after each recurring annual date. This Sustaining Membership entitles the Member to free admission for the Member and family to the Museum on any day, the Annual Report and such other Museum documents or publications issued during the period of their membership as may be requested in writing. When a Sustaining Member has paid the annual fee of \$25.00 for six years, such Member shall be entitled to become an Associate Member.

SECTION 11. Annual Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of Ten Dollars (\$10.00), payable within thirty days after each recurring annual date. An Annual Membership shall entitle the Member to a card of admission for the Member and family during all hours when the Museum is open to the public, and free admission for the Member and family to all Museum lectures and entertainments. This membership will also entitle the holder to the courtesies of the membership privileges of every museum of note in the United States and Canada, so long as the existing system of co-operative interchange of membership tickets shall be maintained, including tickets for any lectures given under the auspices of any of the museums during a visit to the cities in which the co-operative museums are located.

SECTION 12. All membership fees, excepting Sustaining and Annual, shall hereafter be applied to a permanent Membership Endowment Fund, the interest only of which shall be applied for the use of the Museum as the Board of Trustees may order.

ARTICLE II

BOARD OF TRUSTEES

SECTION 1. The Board of Trustees shall consist of twenty-one members. The respective members of the Board now in office, and those who shall hereafter be elected, shall hold office during life. Vacancies occurring in the Board shall be filled at a regular meeting of the Board, upon the nomination of the Executive Committee made at a preceding regular meeting of the Board, by a majority vote of the members of the Board present.

SECTION 2. Regular meetings of the Board shall be held on the third Monday of the month. Special meetings may be called at any time by the President, and shall be called by the Secretary upon the written request of three Trustees. Five Trustees shall constitute a quorum, except for the election of officers or the adoption of the Annual Budget, when seven Trustees shall be required, but meetings may be adjourned by any less number from day to day, or to a day fixed, previous to the next regular meeting.

SECTION 3. Reasonable written notice, designating the time and place of holding meetings, shall be given by the Secretary.

ARTICLE III

HONORARY TRUSTEES

SECTION 1. As a mark of respect, and in appreciation of services performed for the Institution, any Trustee who by reason of inability, on account of change

of residence, or for other cause or from indisposition to serve longer in such capacity shall resign his place upon the Board, may be elected, by a majority of those present at any regular meeting of the Board, an Honorary Trustee for life. Such Honorary Trustee will receive notice of all meetings of the Board of Trustees, whether regular or special, and will be expected to be present at all such meetings and participate in the deliberations thereof, but an Honorary Trustee shall not have the right to vote.

ARTICLE IV

OFFICERS

SECTION 1. The officers shall be a President, a First Vice-President, a Second Vice-President, a Third Vice-President, a Secretary, an Assistant Secretary and a Treasurer. They shall be chosen by ballot by the Board of Trustees, a majority of those present and voting being necessary to elect. The President, the First Vice-President, the Second Vice-President, and the Third Vice-President shall be chosen from among the members of the Board of Trustees. The meeting for the election of officers shall be held on the third Monday of January of each year, and shall be called the Annual Meeting.

SECTION 2. The officers shall hold office for one year, or until their successors are elected and qualified, but any officer may be removed at any regular meeting of the Board of Trustees by a vote of two-thirds of all the members of the Board. Vacancies in any office may be filled by the Board at any meeting.

SECTION 3. The officers shall perform such duties as ordinarily appertain to their respective offices, and such as shall be prescribed by the By-Laws, or designated from time to time by the Board of Trustees.

ARTICLE V

THE TREASURER

SECTION 1. The Treasurer shall be custodian of the funds of the Corporation, except as hereinafter provided. He shall make disbursements only upon warrants, signed by such officer, or officers, or other persons as the Board of Trustees may from time to time designate.

SECTION 2. The securities and muniments of title belonging to the Corporation shall be placed in the custody of some Trust Company of Chicago to be designated by the Board of Trustees, which Trust Company shall collect the income and principal of said securities as the same become due, and pay same to the Treasurer, except as hereinafter provided. Said Trust Company shall allow access to and deliver any or all securities or muniments of title to the joint order of the following officers, namely: the President or one of the Vice-Presidents, jointly with the Chairman, or one of the Vice-Chairmen, of the Finance Committee of the Museum. The President or any one of the Vice-Presidents, jointly with either the Chairman or any one of the other members of the Finance Committee, are authorized and empowered (a) to sell, assign and transfer as a whole or in part the securities owned by or registered in the name of the Chicago Natural History Museum, and, for that purpose, to endorse certificates in blank or to a named person, appoint one or more attorneys, and execute such other instruments as may be necessary, and (b) to cause any securities belonging to this Corporation now, or acquired in the future, to be held or registered in the name or names of a nominee or nominees designated by them.

SECTION 3. The Treasurer shall give bond in such amount, and with such sureties as shall be approved by the Board of Trustees.

SECTION 4. The Harris Trust and Savings Bank shall be custodian of "The N. W. Harris Public School Extension of the Chicago Natural History Museum" fund. The bank shall make disbursements only upon warrants signed by such officer or officers or other persons as the Board of Trustees of the Museum may from time to time designate.

ARTICLE VI

THE DIRECTOR

SECTION 1. The Board of Trustees shall elect a Director of the Museum, who shall remain in office until his successor shall be elected. He shall have immediate charge and supervision of the Museum, and shall control the operations of the Institution, subject to the authority of the Board of Trustees and its Committees. The Director shall be the official medium of communication between the Board, or its Committees, and the scientific staff and maintenance force.

SECTION 2. There shall be four scientific Departments of the Museum—Anthropology, Botany, Geology, and Zoology—each under the charge of a Chief Curator, subject to the authority of the Director. The Chief Curators shall be appointed by the Board upon the recommendation of the Director, and shall serve during the pleasure of the Board. Subordinate staff officers in the scientific Departments shall be appointed and removed by the Director upon the recommendation of the Chief Curators of the respective Departments. The Director shall have authority to employ and remove all other employees of the Museum.

SECTION 3. The Director shall make report to the Board at each regular meeting, recounting the operations of the Museum for the previous month. At the Annual Meeting, the Director shall make an Annual Report, reviewing the work for the previous year, which Annual Report shall be published in pamphlet form for the information of the Trustees and Members, and for free distribution in such number as the Board may direct.

ARTICLE VII

THE AUDITOR

SECTION 1. The Board shall appoint an Auditor, who shall hold his office during the pleasure of the Board. He shall keep proper books of account, setting forth the financial condition and transactions of the Corporation, and of the Museum, and report thereon at each regular meeting, and at such other times as may be required by the Board. He shall certify to the correctness of all bills rendered for the expenditure of the money of the Corporation.

ARTICLE VIII

COMMITTEES

SECTION 1. There shall be five Committees, as follows: Finance, Building, Auditing, Pension, and Executive.

SECTION 2. The Finance Committee shall consist of not less than five or more than seven members, the Auditing and Pension Committees shall each consist of three members, and the Building Committee shall consist of five members. All members of these four Committees shall be elected by ballot by the Board at the Annual Meeting, and shall hold office for one year, and until their successors are elected and qualified. In electing the members of these Committees, the Board shall designate the Chairman and Vice-Chairman by the order in which the members are named in the respective Committee; the first member named shall be Chairman, the second named the Vice-Chairman, and the third named, Second Vice-Chairman, succession to the Chairmanship being in this order in the event of the absence or disability of the Chairman.

SECTION 3. The Executive Committee shall consist of the President of the Board, the Chairman of the Finance Committee, the Chairman of the Building Committee, the Chairman of the Auditing Committee, the Chairman of the Pension Committee, and three other members of the Board to be elected by ballot at the Annual Meeting.

SECTION 4. Four members shall constitute a quorum of the Executive Committee, and in all standing Committees two members shall constitute a quorum. In the event that, owing to the absence or inability of members, a quorum of the regularly elected members cannot be present at any meeting of any Committee, then the Chairman thereof, or his successor, as herein provided, may summon any members of the Board of Trustees to act in place of the absentee.

SECTION 5. The Finance Committee shall have supervision of investing the endowment and other funds of the Corporation, and the care of such real estate as may become its property. It shall have authority to make and alter investments from time to time, reporting its actions to the Board of Trustees. The Finance Committee is fully authorized to cause any funds or investments of the Corporation to be made payable to bearer, and it is further authorized to cause real estate of the Corporation, its funds and investments, to be held or registered in the name of a nominee selected by it.

SECTION 6. The Building Committee shall have supervision of the construction, reconstruction, and extension of any and all buildings used for Museum purposes.

SECTION 7. The Executive Committee shall be called together from time to time as the Chairman may consider necessary, or as he may be requested to do by three members of the Committee, to act upon such matters affecting the administration of the Museum as cannot await consideration at the Regular Monthly Meetings of the Board of Trustees. It shall, before the beginning of each fiscal year, prepare and submit to the Board an itemized Budget, setting forth the probable receipts from all sources for the ensuing year, and make recommendations as to the expenditures which should be made for routine maintenance and fixed charges. Upon the adoption of the Budget by the Board, the expenditures stated are authorized.

SECTION 8. The Auditing Committee shall have supervision over all accounting and bookkeeping, and full control of the financial records. It shall cause the same, once each year, or oftener, to be examined by an expert individual or firm, and shall transmit the report of such expert individual or firm to the Board at the next ensuing regular meeting after such examination shall have taken place.

SECTION 9. The Pension Committee shall determine by such means and processes as shall be established by the Board of Trustees to whom and in what amount the Pension Fund shall be distributed. These determinations or findings shall be subject to the approval of the Board of Trustees.

SECTION 10. The Chairman of each Committee shall report the acts and proceedings thereof at the next ensuing regular meeting of the Board.

SECTION 11. The President shall be ex-officio a member of all Committees and Chairman of the Executive Committee. Vacancies occurring in any Committee may be filled by ballot at any regular meeting of the Board.

ARTICLE IX

NOMINATING COMMITTEE

SECTION 1. At the November meeting of the Board each year, a Nominating Committee of three shall be chosen by lot. Said Committee shall make nominations for membership of the Finance Committee, the Building Committee, the Auditing Committee, and the Pension Committee, and for three members of the Executive Committee, from among the Trustees, to be submitted at the ensuing December meeting and voted upon at the following Annual Meeting in January.

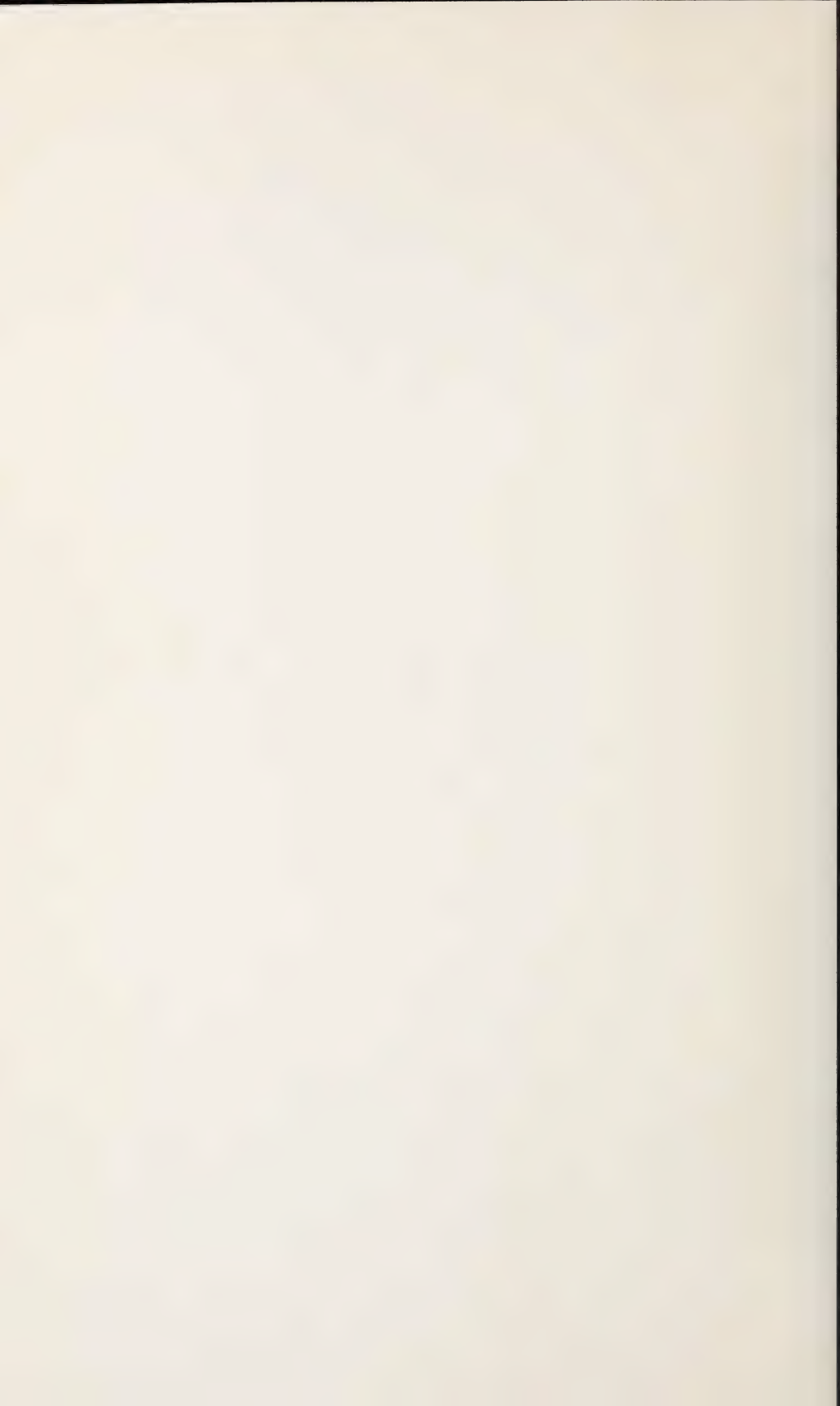
ARTICLE X

SECTION 1. Whenever the word "Museum" is employed in the By-Laws of the Corporation, it shall be taken to mean the building in which the Museum as an Institution is located and operated, the material exhibited, the material in study collections, or in storage, furniture, fixtures, cases, tools, records, books, and all appurtenances of the Institution and the workings, researches, installations, expenditures, field work, laboratories, library, publications, lecture courses, and all scientific and maintenance activities.

SECTION 2. The By-Laws, and likewise the Articles of Incorporation, may be amended at any regular meeting of the Board of Trustees by a vote in favor thereof of not less than two-thirds of all the members present, provided the amendment shall have been proposed at a preceding regular meeting.







CHICAGO
NATURAL
HISTORY
MUSEUM

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ANNUAL REPORT

1961

Chicago Natural History Museum







SOUTH ENTRANCE

CHICAGO NATURAL HISTORY MUSEUM
(FORMERLY FIELD MUSEUM)
ROOSEVELT ROAD AND LAKE SHORE DRIVE

Report of the Director

to the

Board of Trustees

for the year 1961



CHICAGO NATURAL HISTORY MUSEUM

1962

PRINTED IN THE UNITED STATES OF AMERICA
BY CHICAGO NATURAL HISTORY MUSEUM PRESS

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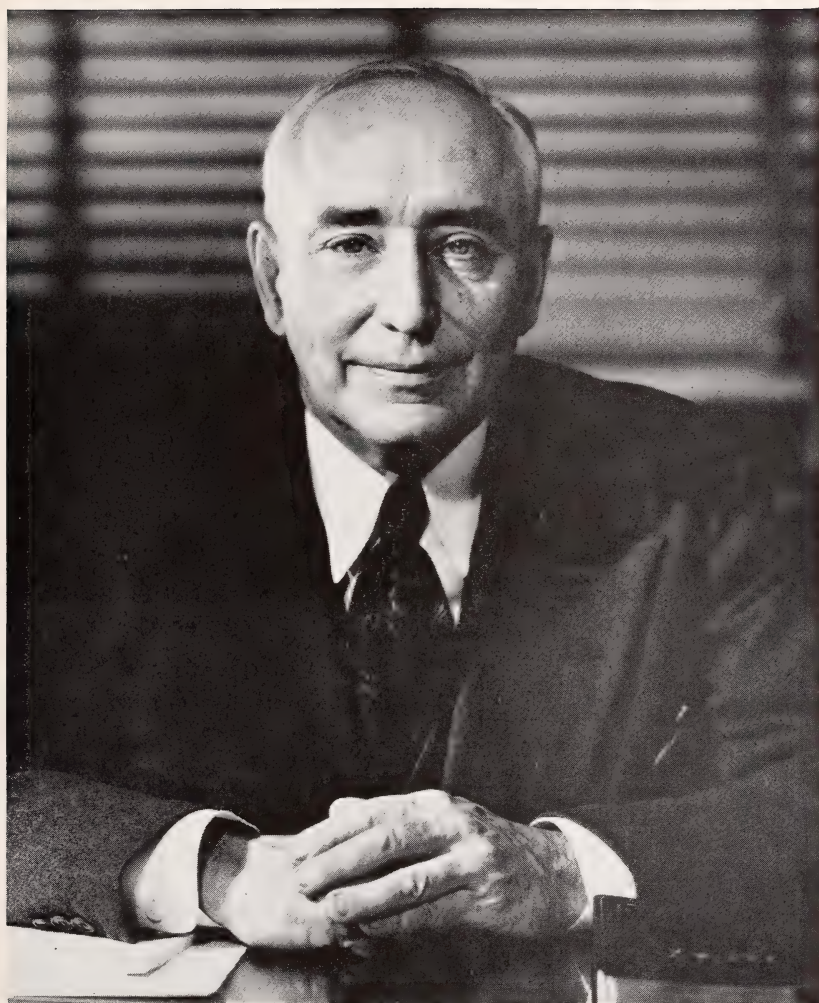


photo by Sarra, Inc.

WALTHER BUCHEN

1887—1961

Trustee of the Museum since 1952
Second Vice-President since 1957
Contributor and Corporate Member

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LESLIE WHEELER,* 1934-1937

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| | JAMES SIMPSON* | 1929-1932 |
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| | SAMUEL INSULL, JR. | 1946-1953 |
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| | GEORGE MANIERRE* | 1894-1907 |
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| | D. C. DAVIES* | 1921-1928 |
| | STEPHEN C. SIMMS* | 1928-1937 |
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| DIRECTORS | FREDERICK J. N. SKIFF* | 1893-1921 |
| | D. C. DAVIES* | 1921-1928 |
| | STEPHEN C. SIMMS* | 1928-1937 |

* deceased

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Finance—Solomon A. Smith, Hughston M. McBain, Walter J. Cummings, Walther Buchen,* Henry P. Isham, Wm. McCormick Blair, John G. Searle

Building—Joseph N. Field, William H. Mitchell, Lester Armour, Louis Ware

Auditing—John G. Searle, Clarence B. Randall,† Marshall Field, Jr., Louis Ware

Pension—Hughston M. McBain, William V. Kahler, John G. Searle, John T. Pirie, Jr., Samuel Insull, Jr.

* deceased

† resigned

LIST OF STAFF 1961

CLIFFORD C. GREGG, B.S., Sc.D., LL.D., Director
E. LELAND WEBBER, B.B.Ad., C.P.A., Assistant Director

DEPARTMENT OF ANTHROPOLOGY

PAUL S. MARTIN, Ph.D., Chief Curator
DONALD COLLIER, Ph.D., Curator, South American Archaeology and Ethnology
GEORGE I. QUIMBY, A.M., Curator, North American Archaeology and Ethnology
JOHN B. RINALDO, Ph.D., Associate Curator, Archaeology
KENNETH STARR, Ph.D., Curator, Asiatic Archaeology and Ethnology
ROLAND W. FORCE, Ph.D., Curator, Oceanic Archaeology and Ethnology*
PHILLIP H. LEWIS, M.A., Curator, Primitive Art
HOSHIE TCHEN, Ph.D., Consultant, East Asian Collection
ALLEN S. LISS, A.B., Custodian of Collections
ALFRED LEE ROWELL, Dioramist
GUSTAF DALSTROM, Artist
THEODORE HALKIN, B.F.A., M.S., Artist
WALTER BOYER, B.F.A., Ceramic Restorer*
WALTER C. REESE, Preparator
SUSAN SCHANCK, B.S., Artist-Preparator
AGNES M. FENNELL, B.A., Departmental Secretary

ROBERT J. BRAIDWOOD, Ph.D., Research Associate, Old World Prehistory
FAY-COOPER COLE, Ph.D., Sc.D., LL.D., Research Associate, Malaysian Ethnology†
FRED EGGAN, Ph.D., Research Associate, Ethnology
J. ERIC THOMPSON, Dipl.Anth.Camb., Research Associate, Central American Archaeology
EVETT D. HESTER, M.S., Field Associate

DEPARTMENT OF BOTANY

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B. E. DAHLGREN, D.M.D., Curator Emeritus†
J. FRANCIS MACBRIDE, Curator, Peruvian Botany
JOHN W. THIERET, Ph.D., Curator, Economic Botany
C. EARLE SMITH, JR., Ph.D., Associate Curator, Vascular Plants*
LOUIS O. WILLIAMS, Ph.D., Curator, Central American Botany

* resigned

† deceased

DEPARTMENT OF BOTANY (CONTINUED)

PATRICIO PONCE DE LEON, Ph.D., Assistant Curator, Cryptogamic Herbarium
EMIL SELLA, Curator of Exhibits ¶
SAMUEL H. GROVE, JR., Artist-Preparator
FRANK BORYCA, Technician
WALTER HUEBNER, Preparator
ROBERT ANDERSON, Artist
EDITH M. VINCENT, A.B., Research Librarian
DOROTHY GIBSON, Assistant and Departmental Secretary

E. P. KILLIP, A.B., Research Associate, Phanerogamic Botany
ROGERS McVAUGH, Ph.D., Research Associate, Vascular Plants
DONALD RICHARDS, Research Associate, Cryptogamic Botany
EARL E. SHERFF, Ph.D., Research Associate, Systematic Botany
HANFORD TIFFANY, Ph.D., Research Associate, Cryptogamic Botany
MARGERY C. CARLSON, Ph.D., Associate, Botany

DEPARTMENT OF GEOLOGY

SHARAT K. ROY, Ph.D., Chief Curator
EDWARD J. OLSEN, Ph.D., Curator, Mineralogy
BERTRAM G. WOODLAND, B.Sc., Associate Curator, Petrology
HARRY E. CHANGNON, B.S., Curator of Exhibits
HENRY HORBACK, Assistant
HENRY U. TAYLOR, Preparator
RAINER ZANGERL, Ph.D., Curator, Fossil Reptiles
ROBERT H. DENISON, Ph.D., Curator, Fossil Fishes
WILLIAM D. TURNBULL, Assistant Curator, Fossil Mammals
DAVID TECHTER, B.S., Assistant, Fossil Vertebrates
EUGENE S. RICHARDSON, JR., Ph.D., Curator, Fossil Invertebrates
GEORGE LANGFORD, Ph.B., Curator, Fossil Plants ¶
ORVILLE L. GILPIN, Chief Preparator, Fossils
RONALD J. LAMBERT, Preparator, Fossils
MAIDI WIEBE LEIBHARDT, Artist
EVELYN SHAHROCH, Departmental Secretary

ERNST ANTEVS, Ph.D., Research Associate, Glacial Geology
ALBERT A. DAHLBERG, D.D.S., Research Associate, Fossil Vertebrates
ERIK N. KJELLESVIG-WAERING, B.Sc., Research Associate, Fossil Invertebrates
EVERETT C. OLSON, Ph.D., Research Associate, Fossil Vertebrates
BRYAN PATTERSON, Research Associate, Fossil Vertebrates
R. H. WHITFIELD, D.D.S., Associate, Fossil Plants
VIOLET WHITFIELD, B.A., Associate, Fossil Plants

¶ retired

DEPARTMENT OF ZOOLOGY

AUSTIN L. RAND, Ph.D., Sc.D., Chief Curator
PHILIP HERSHKOVITZ, M.S., Curator, Mammals
KARL KOOPMAN, Ph.D., Assistant Curator, Mammals*
EMMET R. BLAKE, M.S., Curator, Birds
MELVIN A. TRAYLOR, JR., A.B., Associate Curator, Birds
M. DIANNE MAURER, A.B., Assistant, Birds
ROBERT F. INGER, Ph.D., Curator, Amphibians and Reptiles
HYMEN MARX, B.S., Assistant Curator, Reptiles
JANET WRIGHT, Assistant, Reptiles
LOREN P. WOODS, A.B., Curator, Fishes
PEARL SONODA, Assistant, Fishes
RUPERT L. WENZEL, B.A., Curator, Insects
HENRY S. DYBAS, B.S., Associate Curator, Insects
AUGUST ZIEMER, Assistant, Insects
FRITZ HAAS, Ph.D., Curator Emeritus, Lower Invertebrates
ALAN SOLEM, Ph.D., Curator, Lower Invertebrates
ERNEST J. ROSCOE, M.S., Assistant, Lower Invertebrates
D. DWIGHT DAVIS, Curator, Vertebrate Anatomy
JOAN DAVIS LEVIN, B.A., Assistant
SOPHIE ANDRIS, Osteologist
CARL W. COTTON, Taxidermist
DOMINICK VILLA, Tanner¶
MARIO VILLA, Assistant Taxidermist
PETER ANDERSON, Assistant Taxidermist
JOSEPH B. KRSTOLICH, Artist
RUTH ANDRIS, Departmental Secretary*
WANDA HARRISON, A.B., Departmental Secretary

RUDYERD BOULTON, B.S., Research Associate, Birds
ALFRED E. EMERSON, Ph.D., Sc.D., Research Associate, Insects
HARRY HOOGSTRAAL, M.S., Research Associate, Insects
CH'ENG-CHAO LIU, Ph.D., Research Associate, Reptiles
ORLANDO PARK, Ph.D., Research Associate, Insects
CLIFFORD H. POPE, B.S., Research Associate, Amphibians and Reptiles
CHARLES H. SEEVERS, Ph.D., Research Associate, Insects
R. M. STRONG, Ph.D., Research Associate, Anatomy
ROBERT TRAUB, Ph.D., Research Associate, Insects
ALEX K. WYATT, Research Associate, Insects
LUIS DE LA TORRE, M.S., Associate, Mammals
MARION GREY, Associate, Fishes
WALDEMAR MEISTER, M.D., Associate, Anatomy
EDWARD M. NELSON, Ph.D., Associate, Fishes

* resigned

¶ retired

DEPARTMENT OF ZOOLOGY (CONTINUED)

HARRY G. NELSON, B.Sc., Associate, Insects
KARL PLATH, Associate, Birds
DIOSCORO S. RABOR, M.S., Associate, Birds
LILLIAN A. ROSS, Ph.B., Associate, Insects
ELLEN T. SMITH, Associate, Birds
ROBERT L. FLEMING, Ph.D., Field Associate
GEORG HAAS, Ph.D., Field Associate
FREDERICK J. MEDEM, Sc.D., Field Associate

DEPARTMENT OF THE N. W. HARRIS PUBLIC SCHOOL EXTENSION

RICHARD A. MARTIN, B.S., Curator
DAVID A. ROSS, B.S.A., Preparator
BERTHA M. PARKER, M.S., Research Associate

JAMES NELSON AND ANNA LOUISE RAYMOND FOUNDATION
FOR PUBLIC SCHOOL AND CHILDREN'S LECTURES

| | |
|--------------------------|----------------------------------|
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| HARRIET SMITH, M.A. | ELDA B. HERBERT, M.A., Secretary |
| EDITH FLEMING, M.A. | |

THE LIBRARY OF THE MUSEUM

Administration

META P. HOWELL, B.L.S., Librarian
M. EILEEN ROCOURT, M.A., Associate Librarian
ESTHER P. KERSTER, Secretary

Classification and Cataloguing

W. PEYTON FAWCETT, B.A.
BERTHA W. GIBBS, A.B., B.S.inL.S.
CHIH-WEI PAN, M.S.

Reference

EUGENIA BERNOFF

Accessions, Binding, Stacks

GEORGE STOSIUS, M.E.
CONSTANTIN GLOBALA, Dipl.Eng.

ASSOCIATE EDITORS OF MUSEUM PUBLICATIONS

LILLIAN A. ROSS, Ph.B., Scientific Publications

PATRICIA M. WILLIAMS, A.B., Assistant

HELEN ATKINSON MACMINN, A.M., Miscellaneous Publications

PUBLIC RELATIONS COUNSEL

PAULA R. NELSON

MARILYN JINDRICH, B.S., Associate

DIVISION OF MEMBERSHIPS

GLORIA PAGANO, in charge

MARY H. RYAN, Assistant*

ADMINISTRATION AND RECORDS

SUSANMARY CARPENTER, B.A., Secretary to the Director

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RAYMOND A. N. GOMES, Assistant Recorder

HILDA NORDLAND, Assistant Recorder

JEANNETTE FORSTER, Assistant Recorder

JESSIE DUDLEY, Receptionist

ACCOUNTING

MARION K. HOFFMANN, Auditor

ELEANOR SHEFFNER, Assistant Auditor

ROBERT E. BRUCE, Purchasing Agent

THE BOOK SHOP

JANE COMISKEY, B.A., Manager

MARION A. KRATKY, B.A., Secretary

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E. JOHN PFIFFNER, Staff Artist

MARION PAHL, B.F.A., Staff Illustrator

*resigned

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HOMER V. HOLDREN, Assistant

KURT BOGEN, Assistant*

FERDINAND HUYSMANS, Dipl.A., Assistant

CLARENCE B. MITCHELL, B.A., Research Associate, Photography

DIVISION OF MOTION PICTURES

JOHN MOYER, in charge

DIVISION OF PRINTING

RAYMOND H. HALLSTEIN, SR., in charge

HAROLD M. GRUTZMACHER, Assistant

DIVISION OF MAINTENANCE

JAMES R. SHOUBA, Superintendent

GUSTAV A. NOREN, Assistant Superintendent

DIVISION OF ENGINEERING

WILLIAM E. LAKE, Chief Engineer

LEONARD CARRION, Assistant Chief Engineer

THE GUARD

HARRY R. SMITH, Captain

* resigned

Annual Report of the Director

CHICAGO
NATURAL
HISTORY
MUSEUM

Annual Report

of the Director

To the Trustees of the Museum:

I have the honor to present a report of the operations of the Museum for the year ending December 31, 1961.

During the year 1961 the Museum celebrated its Fortieth Anniversary in the present building, which was opened to the public on May 2, 1921. It might be well to note briefly the tremendous progress made by this institution during that period under the leadership of President Stanley Field and the four directors who served under him.

In 1919, the last full year of operation in the old building in Jackson Park, the total attendance amounted to 123,799. In the year 1961 that figure was surpassed by the *monthly* totals in April, May, July, and August, while the annual attendance rose to 1,307,567. Operating expenditures in 1919 were \$150,871 compared with \$1,460,935 in 1961. Attendance in the eight months of 1921 that the building was open amounted to 517,285 persons and climbed steadily until the year 1927 recorded more than a million persons visiting the Museum. The figure of one million has been exceeded every year since.

At the time of the opening in 1921 the exhibits were substantially as they had been at the old building. Since that time new exhibition techniques and acquisition of splendid additional collections have made this Museum a world leader in the exhibition field.

Outstanding exhibits added since coming to the new building include the series of 101 stone and bronze sculptures in Chauncey Keep Memorial Hall representing the principal racial types of the world today, the restorations by Frederick Blaschke of prehistoric man dating from earliest authentic records to the time of Swiss Lake Dwellers, and the unique collection of plant restorations exhibited in the Hall of Plant Life. Noteworthy also are the mounted fossil-group of Gorgosaurus and Lambeosaurus in Stanley Field Hall and the completion of the fossil skeleton of *Brontosaurus excelsus* in 1958 after it had stood incomplete since 1921. In the Department of Zoology the habitat groups of Asiatic mammals that resulted primarily from the Kelly-Roosevelts and Simpson-Roosevelts expeditions and the African waterhole group in Carl E. Akeley Memorial Hall are of unusual merit. In the Department of Anthropology all exhibition halls have been redone and are outstanding in telling the story of the civilizations they represent.

It would be useless to try to list all of the splendid new exhibits produced in the past forty years, but comparison with old records and photographs tells an extremely vivid story of progress.

The half-million dollar gift of Mrs. Anna Louise Raymond in 1925 established the James Nelson and Anna Louise Raymond Foundation, which has provided lecture service and children's education over the span of years since that time. The receipt of the Edward E. Ayer Lecture Fund in 1941 permitted the Museum to continue and improve the lecture series begun in the last century. The Fiftieth Anniversary gift of the late Marshall Field III permitted the Museum to round out the staff and provide improved facilities for scientific research.

Another interesting comparison between 1919 and 1961 is the number of Members of the Museum. The 1919 Annual Report of the Director lists 153 Life Members and 74 Annual Members, compared with the total of 4,224 in these two categories in 1961.

The Museum Library, assisted by generous gifts of a number of funds for library purposes, has become one of the important specialized scientific libraries of the world; while the acquisition of a number of important research collections in many fields of study has made the Museum an important world research-center in the fields of natural history and anthropology. The building itself, which seemed so vast in 1921, now presents serious problems in the way of storage space. Many areas have been equipped with mezzanine floors, and everything possible is being done to permit the housing and protection of specimens while keeping them readily available

for study. The first forty years in the new building have indeed been noteworthy.

Continued attention to the acquisition of collections necessary for research and maintenance of important research in the various fields of our interests have, of course, multiplied our financial problems. The assistance of individuals and foundations, as well as the continuing support of our Members and friends, has been indispensable to the Museum's progress and will be indispensable to the future of the Museum.

TRUSTEES AND OFFICERS

At the annual meeting of the Board of Trustees President Stanley Field was re-elected to serve for his fifty-third term in that office. All other officers also were re-elected for an additional year: Vice-Presidents Hughston M. McBain, Walther Buchen, and Joseph N. Field, Treasurer Solomon A. Smith, Secretary Clifford C. Gregg, and Assistant Secretary E. Leland Webber.

With deep regret the Board of Trustees announces the death of Walther Buchen, a Trustee of the Museum since 1952 and Second Vice-President of the Museum since 1957. In his memory the Board of Trustees adopted the following resolution:

WALTHER BUCHEN

1887-1961

"The Trustees of Chicago Natural History Museum record with deep regret and sorrow the loss they have sustained through the death on June 12, 1961, of Walther Buchen. Mr. Buchen was born on December 22, 1887. He received the degree of Master of Arts from the University of Illinois and served on the faculty of the University until he entered the advertising profession, becoming President of the Buchen Company in 1923 and continuing in that capacity until his retirement.

"He had always been a lover of nature, and this wholesome interest brought him into contact with the Museum as early as 1948 when he conferred with curators in the Department of Zoology about collecting birds and mammals for the Museum. From that time on, he continued collecting and presenting to the Museum specimens of great scientific value. In 1952, with Mrs. Buchen, he conducted an expedition to Africa, which resulted in the prepara-

tion of the Museum's outstanding habitat group 'Marsh Birds of the Upper Nile.' This exhibit had been contemplated at the Museum for more than fifteen years, but it remained an unsatisfied want until the Buchens brought it to completion.

"Mr. Buchen was elected a Contributor of the Museum in 1949, but his benefactions to the Museum continued throughout his life. He was elected a Corporate Member and a member of the Board of Trustees in 1952. He had served continuously as a member of the Finance Committee since 1954 and as a Second Vice-President since 1957. At the time of his death he was looking forward to his next expedition for the Museum, to be financed by himself.

"Mr. Buchen was a frequent visitor at the Museum and had a wide acquaintance among the members of its staff. Their interests were his interests, and he will be deeply missed not only by the Board of Trustees but by the Museum staff as well.

"In his contacts with his fellow members of the Board of Trustees, Walther Buchen was known for his genuine interest and concern, his warm friendship, and his ever-ready willingness to be of service. In his absence he will always be remembered.

"Therefore, be it resolved that this expression of our sorrow at his death be entered in the permanent records of the Board of Trustees of the Museum.

"And be it further resolved that our deep sympathy be conveyed to the members of his family and that a copy of this resolution be sent to his widow."

Another loss to the Board of Trustees was sustained in the resignation of Trustee Clarence B. Randall. The many demands upon him in governmental service forced him to sever his ties with the Museum, of which he had been a Trustee since 1946.

At its December meeting the Board of Trustees elected to its membership Bowen Blair, partner of William Blair and Company, John Shedd Reed, vice-president for finance of the Santa Fe Railway, John M. Simpson, chairman of the board of A. M. Castle and Company, and Clifford C. Gregg, Director of the Museum.

GIFTS TO THE MUSEUM

The Museum received from the estate of the late Edgar C. Borth \$6,771.90. William S. Street gave \$13,875 toward a zoological expedition to Iran. Jack C. Staehle made an unrestricted gift of \$2,167.50, William G. Burt made an unrestricted gift of \$1,116.50, and Rush Watkins contributed \$1,000 to a zoological expedition fund.

Mrs. Stanley Field, a Benefactor of the Museum, added \$6,000 to the Sara Carroll Field Fund. Miss Margaret B. Conover added \$975 to the Conover Game-bird Fund, Dr. Maurice L. Richardson added \$500 to the Maurice L. Richardson Paleontological Fund, and Dr. Clifford C. Gregg added \$200 to the Commander Frank V. Gregg Memorial Fund. The Frederick Reynolds and Abby Kettelle Babcock Fund received \$478.20 from the estate of the late Mrs. Abby K. Babcock (for use of Special Funds see page 94).

Donations to the Walther Buchen Memorial Fund were received from: Mrs. Harve Badgerow, Mrs. William McCormick Blair, Mrs. Walther Buchen, Mr. and Mrs. Harry L. Calvin, Joseph N. Field, Stanley Field, Mr. and Mrs. William B. Greene, Dr. Clifford C. Gregg, Mrs. John C. Nevins, Carl S. Reed, Mr. and Mrs. Louis Ware, and Mr. and Mrs. Cornelius G. Weber.

Roy E. Sturtevant gave \$500 for use by the Department of Geology, Wayne State University (Detroit) contributed \$467.50 toward a zoological publication, and James R. Getz gave \$391.25 for an anthropological field trip. Judd Sackheim contributed \$250 to the Southwest Archaeological Expedition and Mrs. Hermon Dunlap Smith gave \$200 for zoological purposes.

Other gifts came from: American Scandinavian Foundation (Chicago chapter), Amphenol-Borg Electronics Corporation, Edwin C. Austin, George A. Bates, Bowen Blair, William McCormick Blair, Kent Chandler, Peder A. Christensen, Mrs. Edward S. Clark, Robert N. Corning, Mr. and Mrs. Gaylord Donnelley, Walter Erman, Maxwell Hahn, Philip HersHKovitz, National Society of Colonial Dames of America in State of Illinois, John T. Pirie, Jr., Philip S. Rinaldo, Jr., Melvin N. and Mary F. Rothschild Fund, Mr. and Mrs. Reuben M. Schutz, Edgar Uihlein, University of Illinois, Mrs. Archie F. Wilson, and Mrs. Richard Zickman.

Contributors elected by the Board of Trustees are: George F. Arnemann, Edgar C. Borth (posthumously), William G. Burt, Joe Cervenka, Joseph N. Field, James R. Getz, Mrs. John A. Holabird, Jack C. Staehle, Mrs. William S. Street, Mrs. Margaret Teskey, Mrs. Cyril L. Ward, and Alex K. Wyatt. Gifts of materials received during the year are listed at the end of this Report (see page 96).

THE N. W. HARRIS PUBLIC SCHOOL EXTENSION

The program for which this department was created—that of providing schools in the city of Chicago with regularly scheduled loans of portable Museum exhibits—was carried out through the year with no change in our long-established procedures. As in preceding years, 34 different exhibits of natural-history material were delivered to each public, parochial, and private school and the few other accredited public-service institutions on the department's circulation list. At all times during the school year, between the initial delivery and the final pickup, each recipient had on its premises two of the more-than-a-thousand portable exhibits prepared over the years in the department's workshop. Exchanges were made every tenth school day, as has been customary.

The four men who deliver the exhibits in specially fitted departmental trucks spent nine of every ten days exchanging exhibits and one day assisting in the workshop. Pickup of exhibits at the end of the 1960-61 school year was begun on June 7 and completed on June 22. Delivery for the 1961-62 school year took from September 11 through September 27. The trucks were in operation on 171 days and traveled a combined total of 12,115 miles. At the end of the year 497 names were on the circulation list.

The department was without a preparator from August, 1960, until October, 1961, when Preparator David A. Ross was appointed to the staff. Before coming to Harris Extension he served a three-month apprenticeship in the Plant Reproduction Laboratory of the Museum's Department of Botany. Currently he is concerned with redoing our miniature coal-mine and oil-well exhibits, both of which are obsolete. Preliminary to working on the oil-well exhibit, he spent four days of December in Oklahoma inspecting oil wells, studying modern drilling methods, and collecting pertinent photographs for reference.

Repairs during the year were necessary on 188 of the department's portable exhibits. Breakage in circulation was moderate: twenty-two exhibits were temporarily withdrawn from circulation for repair. An exhibit of the Caspian tern was destroyed by vandals in an elementary school.

Forty-two requests for individually selected portable exhibits or such specific study-kit material as birdskins, herbarium sheets, and rocks and fossils were received and filled. Thirty of the requests were from elementary-school teachers. Among the other borrowers were garden clubs, television studios, an Audubon club, and the American Red Cross.

STAFF OF THE MUSEUM

Dr. Fred Eggan, who is Professor of Anthropology at the University of Chicago, was elected Research Associate in Ethnology by the Board of Trustees of the Museum. Appointments during the year were: Miss Joanne Evenson, Raymond Foundation; Theodore Hal-kin, Artist, Department of Anthropology; Mrs. Wanda Harrison, Secretary, Department of Zoology; Ferdinand Huysmans, Assistant, Photography; David A. Ross, Preparator, Harris Extension; Miss Susan Schanck, Artist-Preparator, Department of Anthropology, and Mrs. Patricia M. Williams, Assistant Editor, Scientific Publications.

Promotions during the year were: Phillip H. Lewis, from Associate Curator of Primitive Art to Curator; Dr. Edward J. Olsen, from Associate Curator of Mineralogy to Curator; Patricio Ponce de León, from Assistant in Botany to Assistant Curator of the Cryptogamic Herbarium; Dr. John B. Rinaldo, from Assistant Curator of Archaeology to Associate Curator; Miss Eleanor Scheffner, from Bookkeeper to Assistant Auditor; and Dr. Louis O. Williams, from Associate Curator of Central American Botany to Curator. Mrs. Dorothy Gibson, who will continue to serve as Secretary of the Department of Botany, was made an Assistant.

Dr. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, resigned at the end of the year to become Director of the Bernice P. Bishop Museum in Honolulu. Other resignations during the year were: Mrs. Ruth Andris, Secretary, Department of Zoology; Kurt Bogen, Assistant, Photography; Walter Boyer, Ceramic Restorer, Department of Anthropology; Dr. Karl Koopman, Assistant Curator of Mammals; Mrs. Mary H. Ryan, Assistant, Memberships; and Dr. C. Earle Smith, Jr., Associate Curator of Vascular Plants. After many years of faithful service, three members of the staff retired: George Langford, Curator of Fossil Plants; Emil Sella, Curator of Exhibits in Botany; and Dominick Villa, Tanner.

The Curator Emeritus of Botany, Dr. B. E. Dahlgren, who was an authority on wax palms, died in December. He had been a valued member of the Museum staff since 1909, becoming Curator of Botany in 1935, a title that was changed the following year to Chief Curator of Botany. Dr. Fay-Cooper Cole, noted anthropologist, who was a Research Associate at the Museum and from 1904 until 1923 had been a member of the Museum staff, died early in September.

I record with regret also the death during the year of the following employees of the Museum: Robert Kelly, guard; Peter Letang, cabinetmaker; Francesco Marchese, janitor; and John Stryzik, pensioner (formerly a painter).

JAMES NELSON AND ANNA LOUISE RAYMOND
FOUNDATION FOR PUBLIC SCHOOL AND
CHILDREN'S LECTURES

This was another year of increasing use of the Museum by school groups. The greatest part of Raymond Foundation's work is with organized school groups, but not all the school groups that visit the Museum can be accommodated with tours and programs. Many school groups come independently and see the Museum under the supervision of their teachers. A total of 4,513 organized groups (including 220,816 persons) came to the Museum in 1961. (For those who were helped by Raymond Foundation see the tables on the following pages.)

One unusual school group merits special comment. A sixth-grade class of twenty-eight students from Bell School (Chicago public) came for a Workshop on Rocks and Minerals, after very special arrangements and preparations had been made by the teacher. Six members of this class were blind, and for them the teacher had all the questions and instructions set up in braille. These six students accomplished an unbelievable amount as they worked first with the hand specimens of rocks and minerals and then in the exhibition halls with the help of the sighted students, the teacher, and the Raymond Foundation staff member. The sightless students "saw" the specimens with their hands and fingers, read the questions in braille about these specimens, and then wrote their answers to the questions in braille.

Thirteen television programs for children were presented on the Lee Phillips Friendship Show (WBBM-TV), twelve by Mrs. Maryl Andre and one by Miss Edith Fleming. The first Soundtrek Special Lecture for use by high-school and junior-college classes in biology, "Classification of Plants and Animals" by Mrs. Andre and Miss Marie Svoboda, was taped and put on the Museum's Soundtrek radio-guide system late in December.

Two series of Museum Stories were given to children attending the spring and fall motion-picture programs on Saturday mornings: "Whales" by Mrs. Andre and "Trees" by Miss Svoboda. The Journey program for boys and girls continued with enthusiasm, and 1,544 Journeys were completed (family groups are finding this program interesting).

During the period in spring when so many school groups come to the Museum, Mrs. Elizabeth Best Deis, a former member of Raymond Foundation staff, assisted with tours and Mrs. Helen Christopher helped in meeting groups as they entered the Museum.

RAYMOND FOUNDATION
ATTENDANCE TOTALS FOR 1961

1. WORK WITH CHILDREN

| <i>A. School groups</i> | Groups | Individuals | Groups | Individuals |
|------------------------------------|--------|-------------|--------|-------------|
| Chicago public | 347 | 12,484 | | |
| Chicago parochial | 36 | 1,422 | | |
| Chicago private | 30 | 824 | | |
| Total Chicago groups | 413 | 14,730 | | |
| Suburban public | 849 | 28,153 | | |
| Suburban parochial | 39 | 1,812 | | |
| Suburban private | 4 | 72 | | |
| Total suburban groups | 892 | 30,037 | | |
| Out-of-state groups | 99 | 3,666 | | |
| Total | | | 1,404 | 48,433 |
| <i>B. Other groups</i> | | | | |
| Special (clubs, etc.) | | | 73 | 3,327 |
| <i>C. Individuals or groups</i> | | | | |
| Journeys | | 1,544 | | |
| Children's movies | 29 | 15,077 | | |
| Total | | | 29 | 16,621 |
| TOTAL WORK WITH CHILDREN | | | 1,506 | 68,381 |

2. WORK WITH ADULTS

| | | | | |
|----------------------------------|----|-------|-----|-------|
| Colleges | 16 | 454 | | |
| Public tours | 53 | 961 | | |
| Miscellaneous groups | 6 | 155 | | |
| Museum-film showings | 47 | 3,825 | | |
| TOTAL WORK WITH ADULTS | | | 122 | 5,395 |

3. MISCELLANEOUS PROGRAMS

| | |
|-------------------------------|----|
| Television programs | 13 |
|-------------------------------|----|

GRAND TOTAL FOR RAYMOND FOUNDATION WORK 1,641* 73,776

* In addition to programs and tours, 805 of these groups (including 33,447 people) were shown movies or other visual materials to help them to a better understanding of the subject being studied.

RAYMOND FOUNDATION
SELECTED PROGRAMS WITH HIGH ATTENDANCE IN 1961

1. STUDY-UNIT PROGRAMS

| | |
|--|--------------------------------------|
| Ancient Egypt (<i>spring and fall</i>) | 44 programs with 4,013 in attendance |
| Life in Ancient Rome (<i>spring and fall</i>) | 44 programs with 2,322 in attendance |
| Birds (<i>spring</i>) | 19 programs with 1,369 in attendance |
| Trees and Their Uses (<i>spring and fall</i>) | 18 programs with 1,193 in attendance |
| How Animals Adjust to Environment (<i>fall</i>) | 10 programs with 1,193 in attendance |

2. WORKSHOPS

| | |
|--|--------------------------------------|
| From Caveman to Civilization (<i>spring</i>) | 30 programs with 1,202 in attendance |
| Learning about Insects (<i>fall</i>) | 29 programs with 730 in attendance |
| Rocks and Minerals (<i>fall</i>) | 17 programs with 584 in attendance |

3. INTERMEDIATE GIRL SCOUT NATURE-BADGE PROGRAMS

| | |
|--|-----------------------------------|
| <i>February on Saturdays</i> (3) | 3 programs with 983 in attendance |
|--|-----------------------------------|

4. PROGRAMS FOR INDIVIDUALS OR FOR GROUPS

A. HONOR DAYS FOR ORGANIZATIONS

| | |
|------------------------------|---------------------|
| Camp Fire Girl Day | 1,293 in attendance |
| Cub Scout Day | 714 in attendance |
| Girl Scout Day | 840 in attendance |

B. JOURNEYS

| | |
|---|-----|
| No. 24—Toys <i>winter of 1960-61 (January, February)</i> | 300 |
| No. 25—Between the Tides <i>spring</i> | 372 |
| No. 26—Dinosaur Land <i>summer</i> | 357 |
| No. 27—Trees <i>fall</i> | 423 |
| No. 28—Winter Fur 'n Feathers <i>winter of 1961-62 (December only)</i> | 92 |

Awards presented in 1961

to participants in the Journey program:

| | |
|--|-----|
| Travelers (completed 4 different Journeys) | 76 |
| Adventurers (completed 8 different Journeys) | 37 |
| Explorers (completed 12 different Journeys) | 15 |
| Final Special Journey | 6 |
| Museum Discoverers | 8 |
| <i>Total Awards</i> | 142 |

FUR AND FEATHERS IN
TEMPERATE CLIMATES

SUMMER



WINTER



WINTER JOURNEY
OF
RAYMOND FOUNDATION
BEGAN
WITH THE
SPECIAL ZOOLOGY EXHIBIT

"FUR AND FEATHERS"

VOLUNTEER WORKERS

The Museum thanks its volunteer workers for their help during the year. Some of them, designated as Research Associates and Associates, are included in the List of Staff at the beginning of this Report. Other volunteers are: Stanley Dvorak, Dr. MacDonald Fulton, Ellis Neiburger, and Joseph A. Pizzo.

MUSEUM ATTENDANCE

Attendance in 1961 totaled 1,307,567, a gain of 63,193 over 1960 and of 232,141 over 1959. During the summer months the Museum was kept open until eight o'clock on four evenings a week, which permitted many persons employed during the day to take advantage of an evening in Grant Park that included a visit to the Museum and dinner in its cafeteria. The popularity of evening hours, which originally were established at the Museum as a supplement to the public concerts in Grant Park, soon demonstrated that this new service was highly acceptable to the public. Attendance by groups was a considerable factor in Museum attendance during the year, reaching a new daily record of 4,478 persons who attended in eighty-six groups on Friday, May 12, and a new monthly record of 62,064 persons in the total group-attendance in May.

MEMBERS' NIGHT

On Friday evening, April twenty-eighth, 1,725 Members and their guests came to the Museum for our annual Members' Night. Feature of the evening was the opening of the new hall showing cultures of Polynesia and Micronesia (Hall F), in which many of the finest specimens from the famous Fuller Collection were presented for the first time to public view. Dr. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, who had supervised the preparation of this outstanding exhibition hall, gave illustrated talks in a nearby room. As usual all workrooms and laboratories at the Museum were open to our visitors. In addition, an effort was made to have interesting displays in widely scattered parts of the building so that crowds would not concentrate in any one area. Our visitors were uniformly enthusiastic, and many of them expressed regret that there was not time to see everything. It is hoped that repeated visits to the Museum will allow them to accomplish this objective.

MEMBERSHIPS

Again in 1961 the number of Members of the Museum increased. A net gain of 411 brought the total to 7,685, which included 326 new Associate Members. The substantial contribution made by our Annual and Sustaining Members to our operating funds and the increase made by our Life and Associate Members in our endowment funds are particularly gratifying as an expression of approval of the work of the Museum. (Names of Contributors elected in 1961 by the Board of Trustees are given on page 25, and complete membership lists begin on page 107.)

It is with deep regret that I record the death of five distinguished Members of the Museum whose service to the Museum has been notable: John Borden, a Corporate Member and former Trustee; Abbé Henri Breuil, a Corresponding Member; Captain A. W. F. Fuller, a Benefactor, Patron, and Corporate Member; Sterling Morton, a Contributor; and Dr. Jeanne S. Schwengel, a Contributor.

SPECIAL EXHIBITS

"Prehistoric Art of the Libyan Sahara," a special exhibit of reproductions of rock paintings and drawings, was presented during December. The records of an ancient civilization dating from 6000 B.C. to about 2000 B.C. were discovered by Dr. Fabrizio Mori, who led four Italian expeditions to Libya between 1955 and 1959. The exhibition was shown through the courtesy of the Italian Institute of Culture and was made available by the American Federation of Arts.

"Birds of Greenland," an exhibit of fifty-two watercolors by the Danish artist Gitz-Johansen, was displayed from October 1 to October 22 through the courtesy of the American Scandinavian Foundation. In connection with the opening of the exhibition, a concert of Scandinavian music was given by the Chicago Chamber Orchestra in James Simpson Theatre on September 30 and a motion-picture program dealing with Greenland was presented on October 1.

"Temple Rubbings from Thailand" was shown from October 27 through November 26. These rubbings in oil colors were made at the Temple of the Sleeping Buddha by Mrs. Vadna Gearhart of Evanston, Illinois, and were lent by Mrs. Gearhart for the exhibit.

Annual showings included the Sixteenth International Exhibition of Nature Photography in co-operation with the Nature Camera Club of Chicago in February, the exhibit in May of work done in

our halls by students of the Junior School of the Art Institute of Chicago, and in June the Amateur Handcrafted Gem and Jewelry Competitive Exhibition sponsored by the Chicago Lapidary Club.

LECTURE PROGRAMS FOR ADULTS

The 115th and 116th free lecture series for adults were presented at the Museum on Saturday afternoons during March, April, October, and November. These lectures are made possible through the foundation established by the late Edward E. Ayer, first President of the Museum. Attendance at the seventeen lectures totaled 16,302 persons. Programs were varied in content, and a special effort was made to present material that was in the news. Audience reaction continued to be extremely favorable.

EXPEDITIONS AND FIELD TRIPS IN 1961

The Museum conducted twelve expeditions and field trips in 1961.

DEPARTMENT OF ANTHROPOLOGY—*Great Lakes Area Archaeological Field Trips* (George I. Quimby, Curator of North American Archaeology and Ethnology, see page 38); *Southwest Archaeological Expedition* (Dr. Paul S. Martin, Chief Curator of Anthropology, see page 37)

DEPARTMENT OF BOTANY—*Northwest Territories Botanical Expedition 1961-62* (Dr. John W. Thieret, Curator of Economic Botany, see page 44)

DEPARTMENT OF GEOLOGY—*Central America Volcanological Field Trip* (Dr. Sharat K. Roy, Chief Curator of Geology, see page 50); *Quebec Paleontological Field Trip* (Dr. Robert H. Denison, Curator of Fossil Fishes, see page 49); *Vermont Geological Field Trip* (Bertram G. Woodland, Associate Curator of Petrology, see page 51)

DEPARTMENT OF ZOOLOGY—*Africa Zoological Field Trip, 1961-62* (Melvin A. Traylor, Jr., Associate Curator of Birds, see page 56); *Arizona Zoological Field Trip* (Dr. Alan Solem, Curator of Lower Invertebrates, see page 55); *Florida Zoological Field Trip* (Dr. Robert F. Inger, Curator of Amphibians and Reptiles, see page 55); *Guiana Zoological Expedition, 1960-61* (Harry A. Beatty, see page 55); *Pacific Zoological Field Trip, 1961-62* (Dr. Solem, see page 55); *Surinam Zoological Field Trip, 1961-62* (Philip Herskovitz, Curator of Mammals, see page 55)

DEPARTMENT OF ANTHROPOLOGY

DEPARTMENT OF BOTANY

DEPARTMENT OF GEOLOGY

DEPARTMENT OF ZOOLOGY

TOLTEC
EFFIGY
VASE

MEXICO
A.D. 1000



Department of Anthropology

Research and Expeditions

The Southwest Archaeological Expedition completed another season of research in Arizona under the leadership of Chief Curator Paul S. Martin (see page 34). A grant from the National Science Foundation (for research in cultural stability and development of traditions in the Upper Little Colorado River Drainage) made it possible to undertake excavations near Snowflake, Arizona, to continue the paleoecological studies of the previous season, and to continue the archaeological reconnaissance. The Museum is grateful for this assistance. James R. Carter, C. E. Gurley, Mr. and Mrs. Maxwell Hahn, Charles E. Keney, M.D., and Judd Sackheim also contributed toward the funds of the expedition, and grateful acknowledgement of their interest is made here.

A pueblo located on the ranch of James Carter was partly excavated. A large kiva (one of two) and twenty rooms were finished. Routine trenching of the trash-mound produced thirty burials. From them and from the rooms more than a hundred whole or restorable pots were found. Fifty-four sites were discovered on the reconnaissance. Well-preserved pollen was obtained from several archaeological sites, from the banks of a deep arroyo, and from sediments in an ancient lake-bed. These will, when analyzed, indicate the climate of the area for the past five thousand years and some of the foods gathered or produced by the inhabitants. David McQueen, Antioch College student, classified pottery and catalogued artifacts.

Dr. Donald Collier, Curator of South American Archaeology and Ethnology, continued analysis of archaeological materials from Casma Valley, Peru, that had been gathered in 1956. Fifty sites were dated by means of pottery seriation techniques and a sequence of architectural types was worked out. The time-span covered is from about 1000 B.C. to A.D. 1550, shortly after the Spanish conquest. It was found that additional ceramic and architectural data were needed from two crucial groups of sites dating from the Formative period, about 600-400 B.C. Dr. Duccio Bonavia, of the University of San Marcos, Lima, kindly made a trip to Casma to collect the needed data, correct the site maps, and make photographs. He was ably assisted by Felix Caycho Quispe, of the University of San Marcos Museum. Donald E. Thompson, who was Curator Collier's assistant on the expedition in 1956, will be co-author of the final report on the Casma research.

George I. Quimby, Curator of North American Archaeology and Ethnology, continued investigations of prehistory and changing environments in the Great Lakes region. A grant-in-aid from the American Council of Learned Societies made it possible for him to undertake special studies of Indian cultures of the period just before and just after the arrival of French explorers and missionaries, thus considerably extending the scope of the Great Lakes research program. The Museum is grateful for this assistance.

During the year field trips were made to various sites on the south shore of Lake Superior and the northern half of the Lake Michigan basin (see page 34). Surface collections of artifacts were obtained and test trenches were dug in key sites. As part of this aspect of Great Lakes research Curator Quimby, assisted by James R. Getz, made an archaeological survey of the Garden and Stonington peninsulas in upper Michigan. Great Lakes research dealing with protohistoric and historic Indian cultures from about A.D. 1400 to 1750 consisted primarily of study trips to examine relevant collections of late-period artifacts owned by museums and private individuals. Pertinent collections were recorded and photographed in color for reference.

Dr. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, devoted a part of the year to an analysis of kinship and social organization in the Palau Islands of Micronesia. A portion of the analysis was carried out with the aid of the resources of the library of Bernice P. Bishop Museum in Honolulu. This research, which produced several short articles, was supported by Chicago Natural History Museum and a grant-in-aid from the Social Science Research Council. The final report will supply information on both the contemporary and the aboriginal way of life in Palau, including sections on kinship terminology, status heirarchy in sociopolitical life, the exchange system, kin and local groups, settlement patterns, and village organization.

Dr. Kenneth Starr, Curator of Asiatic Archaeology and Ethnology, continued studies in the two main areas of his interest. These areas are the prehistory of eastern Asia and Chinese ink-rubbings.

Phillip H. Lewis, Curator of Primitive Art, continued his research into further definition of primitive art. Going beyond the social definition of primitive art (see page 41), the art itself, rather than its social context, was considered in its aspects of form and meaning and contrasted with the art of civilized societies. Generally speaking, art form in primitive societies (mainly because of the unified structure of primitive societies) has clearer meanings than in the more complex civilized societies.

During the first months of the year Associate Curator Rinaldo joined with Chief Curator Martin in preparation of a report on the excavation of a great kiva and several small prehistoric Indian villages in eastern Arizona. He made an analysis of architectural data and stone, bone, and baked-clay artifacts, particularly the significant sacred stone-image found in the great kiva, and prepared maps. From June through September he directed excavations for the Southwest Archaeological Expedition (see page 34), and after his return he continued the analysis of data begun in the field.

Care of the Collections—Anthropology

The rearrangement of the Central and South American collections in Room 35 was completed by Custodian of Collections Allen S. Liss with the help of Owen Delman, temporary assistant, who sorted and classified several thousand clay figurines from the Valley of Mexico. This work led to the reassembling of a rare Toltec effigy vessel, the two parts of which had been acquired by the Museum from different sources in 1905 and 1923 (see the picture of this object on page 36).

In the Division of Asiatic Archaeology and Ethnology work was begun on a new storage area to house the Museum's collections of ethnological materials from China and Tibet. This facility is being built in connection with the reinstallation of the exhibition galleries devoted to the display of cultural materials representing life in China and Tibet during recent centuries.

Dr. Hoshien Tchen, Consultant, East Asian Collection, continued his work of cataloguing the Museum's vast collection of Chinese ink-rubbings. This highly specialized work included translation of inscriptions, identification of pictorial elements, and addition of explanatory notes. This year Dr. Tchen particularly has directed his efforts toward completing the catalogue of rubbings taken (1) of the reliefs of the tomb of Confucius at Ch'ü-fu in Shantung Province and (2) of the stone monuments assembled in the famous *Pei-lin*, located at the Temple of Confucius in the historically important city of Hsi-an in Shensi Province [the *Pei-lin*, or "Stone Forest," is a museum of stone tablets that was established in the *Yüan-yü* reign period (A.D. 1086–1093) of the Sung dynasty and represents the most famous single collection of historically and calligraphically important stone inscriptions in all of China]. Dr. Tchen's continuing work in the cataloguing of the Museum's collection of ink-rubbings is of great significance.

Accessions—Anthropology

The 116 whole or restorable black-on-white pottery vessels that were excavated by the Southwest Archaeological Expedition in 1961 represent the first documented collection from the area in and around Snowflake, Arizona. Included in this collection is an unusually fine series of shell, bone, and stone artifacts that illustrate hitherto unknown developments in Hopi culture of the eleventh and twelfth centuries. Interesting and useful collections of ethnological material from the Indians of eastern Bolivia and central Brazil were purchased from Borys Malkin, who collected them in 1960-61.

The most significant acquisition of the year in the Oceanic collections is a rare whalebone weapon, a gift from Captain and Mrs. A. W. F. Fuller of London. This weapon, which is called a *hoeroa* by the Maori who used such weapons in intertribal warfare many years ago and is one of the few in museum collections, was once in the collection of Sir Frederick Selby Chance, former Member of Parliament.

Added to the collections is the plaster cast of an Egyptian statuette that was received in exchange from Ny Carlsberg Glyptotek of Copenhagen. The original of the cast is a seated figure, complete except for the head. The missing head has been in the possession of Chicago Natural History Museum since 1908 and now, with the exchange of casts, each institution has the whole piece, even though only part of each statuette is original.

Exhibits—Anthropology

The renovation of exhibits in the Hall of Ancient Chinese civilization (George T. and Frances Gaylord Smith Hall) was continued by Custodian Liss under the supervision of Curator Starr, with the close co-operation of the Division of Maintenance and the help of Miss Mary Hogquist (Museum Fellow), David McQueen, James D. Hawley, and Keir Jorgensen (Antioch College students), and Donald Adler (assistant). An extensive program for the reinstallation of the cultural materials representing modern China and Tibet also was initiated. Associated with Curator Starr in this program and contributing markedly to its success is Theodore Halkin, Artist.

Seventeen new exhibits were installed in Hall F (Peoples of Polynesia and Micronesia) before the formal opening of the new hall, which took place on Members' Night (New Zealand—4, Fiji—2, Tonga—1, Samoa—2, Gilberts—2, Marshalls—1, Carolines—1, Pa-

laus—2, and Hawaii—2). Special features of the new hall are a mural map of the culture areas of the Pacific, a collection of enlarged photographs of outstanding specimens, and a life-group inside the Maori council house. Later in the year an exhibit was prepared for Hall A (Melanesia) in which the unique and beautiful shell-inlay work of the Solomon Islands was emphasized.

"Primitive Artists Look at Civilization," which was the Museum's featured exhibit for July, is the first aspect of the Hall of Primitive Art (Hall 2, Edward E. and Emma B. Ayer Hall) to be completed. Exhibits illustrating the major theme of the hall, "The Human Image in Primitive Art," are not yet completed. Both themes deal with images of man as conceived by primitive artists: those done within the context of primitive social life and those done in primitive societies in change (societies with Europeans and European influences present).

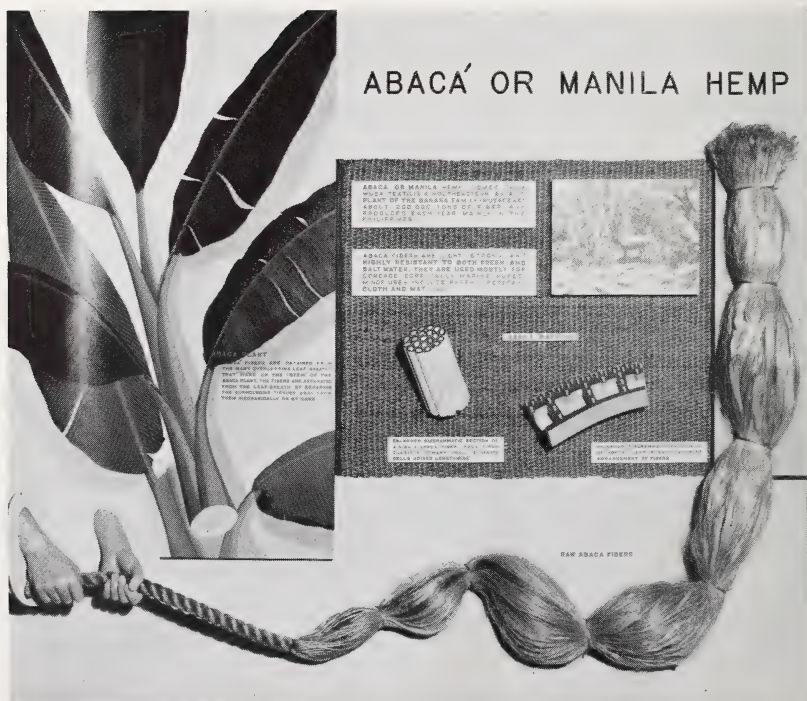
Artist Gustaf Dalstrom, Artist-Preparator Susan Schanck, Dioramist Alfred Lee Rowell, and Preparator Walter C. Reese helped in the exhibition program.

BURIAL WITH MORTUARY POTTERY FOUND IN REFUSE



ON JAMES R. CARTER RANCH, SNOWFLAKE, ARIZONA

NEW EXHIBIT
FOR
REINSTALLED
HALL 28



Department of Botany

Research and Expeditions

Dr. Margery C. Carlson, Associate in Botany, continued study of plants that she collected in Mexico in 1960, making identifications and distributing certain groups to specialists. Dr. Earl E. Sherff, Research Associate in Systematic Botany, determined collections of Hawaiian plants belonging to groups in which he has specialized. Dr. Rogers McVaugh, Curator of Vascular Plants at the University of Michigan and Research Associate on the staff of the Museum, spent a period in residence in Chicago and also visited major herbaria in other cities in order to prepare his contribution on the Myrtaceae for the *Flora of Guatemala*.

Curator Emeritus Dr. B. E. Dahlgren (since deceased) relinquished to Dr. Sidney F. Glassman of the University of Illinois (Navy Pier, Chicago) the whole responsibility of preparing the concluding report on the palm genus *Copernicia*, the first part of which was published during the year in *Gentes Herbarum*. J. Francis Macbride, Curator of Peruvian Botany, worked on the Composite family of plants for the *Flora of Peru*. Some tribes of the Compositae are being prepared by collaborators.

At the invitation of Armour Research Foundation, Dr. Patricio Ponce de León, Assistant Curator of the Cryptogamic Herbarium, accompanied Dr. Ervin Hawrylewicz on a short field trip to Devil's Lake, Wisconsin, as consultant to the Foundation and to collect cryptogamic plants for the Museum (the Armour Research project is concerned with the viability of lower plants under simulated conditions presumed to exist on the planet Mars). Dr. Ponce de León continued studies of the genus *Polyporus* in preparation for a monograph on these fungi. He also cultured and isolated various fungi obtained from specimens of luminescent wood in an effort to determine the agent and critical factors.

Dr. C. Earle Smith, Jr., Associate Curator of Vascular Plants, continued preparation of a critical catalogue of the Muhlenberg Herbarium. He made a short study trip to the United States National Herbarium in connection with his revision of the Meliaceae of Panama, for which the manuscript was submitted to Missouri Botanical Garden for publication in its *Flora of Panama*. He served as Consulting Botanist for the joint Archaeological-Botanical Tehuacán Project undertaken by staff members of the Royal Museum of Canada and sponsored by the R. S. Peabody Founda-

tion and spent July and part of August collecting in the Tehuacán area of Mexico (see illustration on page 45).

Dr. John W. Thieret, Curator of Economic Botany, conducted an expedition to the Northwest Territories of Canada (see page 34) with the aid of funds from a grant awarded in 1960 by the National Science Foundation for the purpose of a vegetational survey of the Fort Providence–Yellowknife Highway area at the western end of Great Slave Lake. He was accompanied by Robert J. Reich, of Indiana State Teachers College, who assisted in the collection of plant specimens.

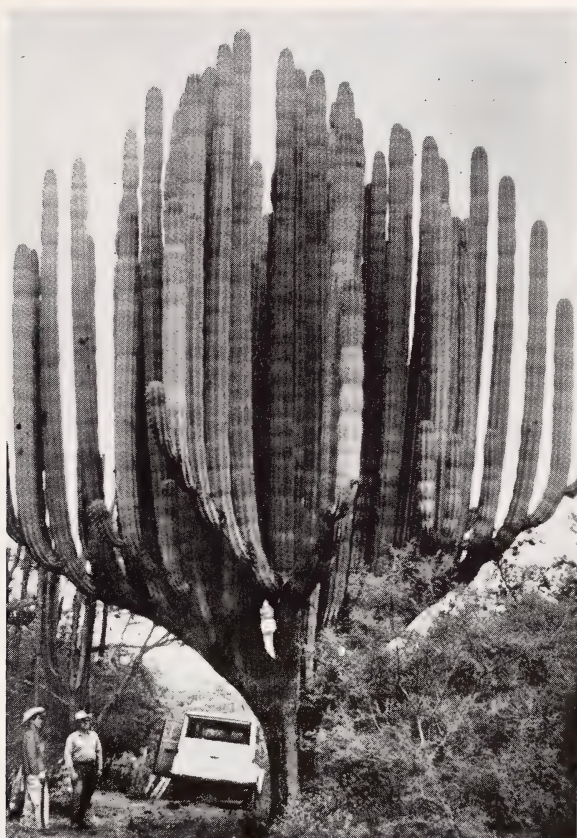
Dr. Louis O. Williams, Curator of Central American Botany, completed the families Dilleniaceae through Begoniaceae for the *Flora of Guatemala* (see page 78) and at the end of the year was well along with manuscript for the following families, Cactaceae through Combretaceae. Corollary to this has been the publication of new genera, species, and combinations under the title *Tropical American Plants, II* (see page 78). He made brief study-trips to the United States National Herbarium and Gray Herbarium of Harvard University in connection with his work. The completion of the *Flora of Guatemala* is being aided with funds granted in 1961 by the National Science Foundation.

Miss Edith M. Vincent, Research Librarian, located botanical data for staff members, correspondents, and workers from other institutions as well as handled most routine matters of library operation for the department.

Care of the Collections—Botany

The collection of pollen slides, accumulated from various sources in recent years, was organized with the assistance of Miss Margaret Archibald, Antioch College student. Miss Mia Buehr and Miss Lynn Whitman, Antioch College students, sterilized and transferred fruit collections stored in containers subject to insect infestation to glass jars or plastic bags capable of retaining a fumigant. David Frodin (temporary assistant) completed cutting to standard herbarium sizes leaves and spadices of palms that had been collected by Curator Emeritus Dahlgren in connection with his studies of the wax palm *Copernicia*. Mrs. Dorothy Gibson, Departmental Secretary and Assistant, continued her preparation of slides of floral dissections as an aid to identification of the numerous tropical American plants received from various collectors in the past and which remain undetermined even as to family.

CACTUS
NEAR
COXCATLAN
IN
MEXICO



PHOTOGRAPH BY
DR. C. EARLE SMITH, JR.

Assistant Curator Ponce de León completed checking, indexing, and reorganizing into phylogenetic arrangement all of the cryptogamic herbarium and initiated the transfer of specimens to color-coded folders to indicate geographic location (in the latter project he was assisted by Antioch College students Miss Barbara Agate and Miss Buehr). He completed identification of all Steyermark collections of Missouri fungi, lichens, and hepatics, identified and completed the nomenclatural revision (into current synonymy) of all specimens of *Polyporus* in this herbarium, completed the annotation and cross-indexing to current nomenclature of all genera of cryptogams, and supervised the preparation (by Miss Archibald) of a complete card index for all genera.

Mrs. Lenore Warner began an alphabetical index of type-photographs in families and genera to supplement and cross-reference the numerical indices completed last year. A total of 5,266 type-photographs was sent to other institutions in continuation of exchange, 779 were sold, and 300 new negatives were added to the files. A total of 28,386 specimens was mounted and added to the herbarium of vascular plants. Plants were mounted by Mrs. Karoline Benyovszky, Almon Cooley, Peter Feldmann, David Frodin, and Mrs. Jennie Pletinckx, and by Matthew Richards, Miss Hyo Young Chung, Miss Linda Dybas, Miss Archibald, and other student assistants. Robert Yule completed a number of tasks connected with the operation of the Herbarium and other sections of the department. Mrs. Pletinckx aided in sorting and labeling the collections received in 1960 from Holly Reed Bennett so that duplicates may be used for exchange purposes.

Accessions—Botany

Among the largest and most valuable collections received through exchange were 4,656 specimens of vascular plants from the Conservatoire et Jardin Botaniques, Geneva, Switzerland. These specimens had been selected with the assistance of Curator Macbride when he was in Geneva a number of years ago in connection with the project to photograph type-specimens of American plants in European herbaria. The 2,837 plants of the Tehuacán area, Mexico, collected by Associate Curator Smith while he was with the R. S. Peabody Foundation's Archaeological-Botanical Tehuacán Project (see page 43), constitute a botanical survey of a valley from which there is promise of much new information on the early development of food plants and primitive cultures. Holly Reed Bennett again

presented the largest gift, 2,946 plants that he collected in the United States and identified. Other significant acquisitions were 331 plants of Mexico from Dr. U. T. Waterfall and 360 plants of North Pakistan from Professor O. Polunin, acquired by purchase, and 841 plants of South Korea from the University of Michigan, acquired by exchange.

Exhibits—Botany

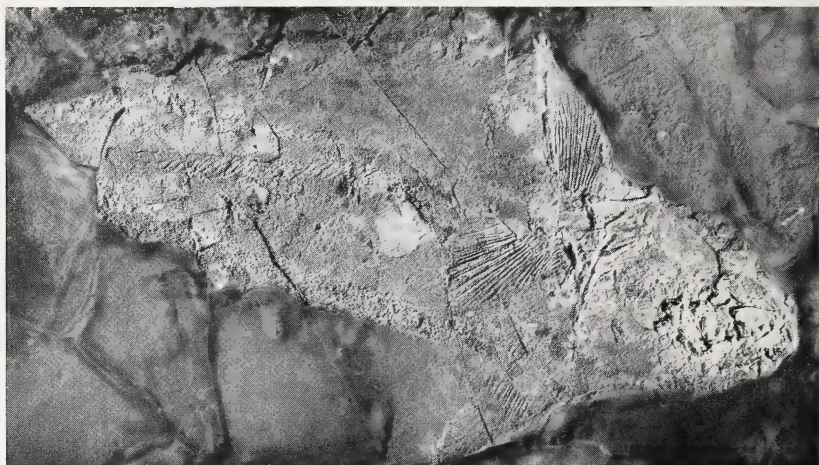
Remodeling the Hall of Useful Plants (Hall 28) was begun early in the year with bricking-in court windows and constructing framework to support display cases of the style long used for botanical exhibition (but without the bases containing storage cabinets). This work was more than half completed by the Division of Maintenance at the end of the year. Completed for installation in the new setting were exhibits of plant dyes and tannins, resins, and leaf fibers (Manila hemp and agave) and several models to be included in other exhibits. Curator of Exhibits Emil Sella, Technician Frank Boryca, Preparator Walter Huebner, Artist Robert Anderson, Artist-Preparator Samuel H. Grove, Jr., and Curator Thieret effectively co-ordinated their separate skills and knowledge in the planning and construction of exhibits.

MODEL OF BRANCH OF ENGLISH WALNUT



MADE IN PLANT REPRODUCTION LABORATORY

THIS LARGE SHARK, FOUND IN LOGAN QUARRY, INDIANA, IN 1957



WAS BURIED SOME 240 MILLION YEARS AGO

Department of Geology

Research and Expeditions

Dr. Rainer Zangerl, Curator of Fossil Reptiles, and Dr. Eugene S. Richardson, Jr., Curator of Fossil Invertebrates, spent most of the year preparing a manuscript on the paleoecology of two interesting Pennsylvanian black shales of western Indiana. Studies of these shales have brought forward a wealth of striking evidence concerning the nature of the environment of deposition at the time of their formation some 250 million years ago. It has thus been possible to determine in far greater detail than anticipated the physiographic setting, the rate of deposition, and the factors responsible for the vast accumulation of vertebrate skeletons at the sites of Mecca and Logan quarries (see Annual Report 1960, page 61). The systematic study of the extensive collection of fossils made at these localities will be undertaken separately.

Dr. Robert H. Denison, Curator of Fossil Fishes, has continued his study of the Cyathaspididae, a family of primitive jawless vertebrates, and has completed a description of a collection of Silurian cyathaspids from the Yukon obtained by oil-company geologists. In addition, he has studied Early Devonian lungfishes from Wyoming and the histology of early hard tissues. During parts of July and August he conducted a field trip to Escuminac Bay in Quebec (see page 34), where he collected in the Upper Devonian rocks and obtained a representative series of fishes.

George Langford, Curator of Fossil Plants, spent the greater part of the year studying the Museum's Coal Age and Mesozoic plants and rearranging the storage specimens to improve their accessibility. He also spent considerable time in correcting and revising specimen labels.

As a part of his study of the fossil fauna of the Washakie formation, William D. Turnbull, Assistant Curator of Fossil Mammals, worked on the fossil rodents and ungulates from that formation. He also continued his study of the adaptive types of mammalian masticatory apparatus, giving special attention to the analysis of the functional mechanisms. His field activities were limited to a week of collecting in western Colorado (see page 51).

Dr. Edward J. Olsen, Curator of Mineralogy, completed his work on the statistical distribution of magnesium and iron in the minerals olivine and orthopyroxene from world occurrences. He developed a technique to use the X-ray fluorescence unit for quantitative analy-

ses of iron, cobalt, and nickel and effectively used it to analyze partially an uncommon nickel-cobalt bearing lazulite from Baraboo, Wisconsin. He also became actively interested in the study of meteorites and did preliminary work on the identification of constituent minerals in the Weekeroo Station, La Porte, and Mount Joy meteorites by X-ray diffraction. Because of the lack of appropriate literature on the subject, some of the X-ray diffraction data had to be initially calculated.

Dr. Sharat K. Roy, Chief Curator of Geology, spent four months in the field in the Central American republics of Guatemala, El Salvador, Nicaragua, and Costa Rica, working along the volcanic belt that parallels the Pacific Ocean (see page 34). The purpose of the trip, which was taken in connection with the forthcoming monograph "The Principal Volcanoes of Central America," was to revisit individual volcanoes for restudy of each with emphasis on checking the data collected on previous field trips and also to take new photographs to replace old ones of certain volcanoes whose appearance had been noticeably changed by recent eruptions.

Much was accomplished on this trip but not everything that had been planned. Five volcanoes, Pacaya in Guatemala and four, Concepcion, Monmotombo, Telica, and Coseguinea, in Nicaragua, which were not hitherto reached for lack of transportation or only sketchily observed from the air, were studied in detail, and samples from recent lava flows were collected for chemical and petrographic analyses. In El Salvador, Volcan Izalco, which, now in a dormant stage, is marked only by fumarolic activity, was again climbed and the changes that had taken place in its crater and flanks were carefully observed.

We wish to thank again the Director and other members of the staff of Instituto Tropical and of the Geological Survey of San Salvador for their hearty co-operation and for the use of facilities to carry on field work and laboratory studies. Our grateful appreciation for rendering cordial and most effective aid to facilitate field work in Nicaragua is also offered to Dr. Juan Jose Lugo Marengo, Ministro de Economia, and Dr. Roberto Solórzano Marin and to Dr. Adolfo J. Bengoechea of the National Geological Survey of Nicaragua. But for the help given by these officials it would not have been possible to accomplish even a part of the work done in Nicaragua.

In the field of research, Chief Curator Roy (with J. J. Glass and E. P. Henderson) completed the paper "The Walters Meteorite," and another paper "Spheroids in Volcanic Ash" was completed also, except for photographic and editorial details. He also made steady

progress on two monographs, one on volcanoes (to which reference has been made) and the other on chondrules in chondritic meteorites. A paper (with E. R. DuFresne) describing a new meteoric mineral, an anhydrous magnesium phosphate hitherto unobserved in nature, was published (see page 84). The mineral was found in the Springwater meteorite, a pallasite, from Springwater, Saskatchewan, Canada. It has been named farringtonite in honor of the late Dr. Oliver Cummings Farrington, the first Chief Curator of the Museum's Department of Geology and a leading student of meteoritics of his time (see illustration on page 86).

Bertram G. Woodland, Associate Curator of Petrology, completed a study on the trend of metamorphism of rocks from an area in northeast Vermont. He also made chemical analyses of four basic dike rocks from the same area and completed a report on the petrology of the dike suite to which the analyzed rocks belong. A quartz fabric analysis of some folded quartz veins in schist is in progress. He spent five weeks in the field in central Vermont studying the minor structures of metamorphic rocks and collecting specimens for detailed examination of their structural geometry (see page 34). He also spent a week in the field in Parke County, Indiana, with Curator Zangerl and Curator Richardson to familiarize himself with the stratigraphy of the area. During his stay he collected some fine specimens of cone-in-cone in limestone for the study collection.

Earlier in the year Patrick J. Carlone and Miss Lynn Whitman, Antioch College students, rendered able assistance to Curator Olsen and Associate Curator Woodland in the chemical and mineralogical laboratories. Later, during October through December, the excellent services of Miss Laura N. Stone, another Antioch College student, were used by Curator Olsen in reorganizing and inventorying mineral specimens.

Accessions—Geology

Our collections of Cretaceous fishes from the Niobrara chalk were increased by the purchase through the Maurice L. Richardson Paleontological Fund of excellent specimens of *Pachyrhizodus*, *Albula*, *Apsopelix*, and *Saurodon* from Marion C. Bonner. Significant additions to the fossil-mammal and fossil-bird collections were specimens from the DeBeque formation of Colorado (some were donated by Al Look and Miss Sue Hill and some were collected by Assistant Curator Turnbull—eight very poorly known orders are represented by these specimens).

Francis Tully presented twenty specimens of interesting and entirely unknown segmented fossil invertebrates found in concretions in the abandoned strip mines of Will County, Illinois. Dr. Hans Hess, of Switzerland, who visited the Museum in June, presented eight beautifully preserved specimens of Jurassic echinoderms from France and Switzerland.

Mrs. Cyril L. Ward generously donated five beautiful black opals and fire opals set in gold mounts with diamonds and rubies. These exquisite stones are among the best of our opal collections displayed in H. N. Higinbotham Hall (Hall 31, Gems and Jewels). By exchange with the Mineralogical and Geological Museum of Copenhagen University an interesting suite of alkalic igneous rocks from Ilimaussag, Greenland, was added to the rock collection.

Care of the Collections—Geology

David Techter, Assistant, catalogued the major portion of the extensive collection of fossils obtained from the Mecca and Logan quarries of Parke County, Indiana (see page 49), and at the end of the year a total of 725 specimens of fossil fish, representing the choicest material, had been catalogued. Several hundred additional specimens were under further study to determine which of them should be catalogued and added to the permanent collection. Orville L. Gilpin, Chief Preparator, completed the painstaking preparation of a huge shark (eight and a half feet long in its present state) from the Logan Quarry. This remarkable specimen is a nearly complete skeleton and, because it is the only one that has ever been recovered and prepared, it adds much to the interest of Coal Age fauna (see illustration on page 48).

The fossil invertebrate collections also received due attention. Mrs. Maria Weiss, of the University of Chicago, working on a Museum grant, has identified and relabeled numerous Paleozoic crinoids and brachiopods. Likewise, Chi-wei Pan, of the Museum staff, identified and catalogued several hundred Cenozoic invertebrates from the extensive Nelson Collection.

Approximately twenty cases of minerals in the study collection were completely reorganized and inventoried by Curator Olsen. When the work is completed, following the method of reorganization adopted, the collection will be more compact and there will be a substantial gain in storage space. The new arrangement will enable one to determine all mineral species on hand, the exact location of each, and the quality and extent of the collection.

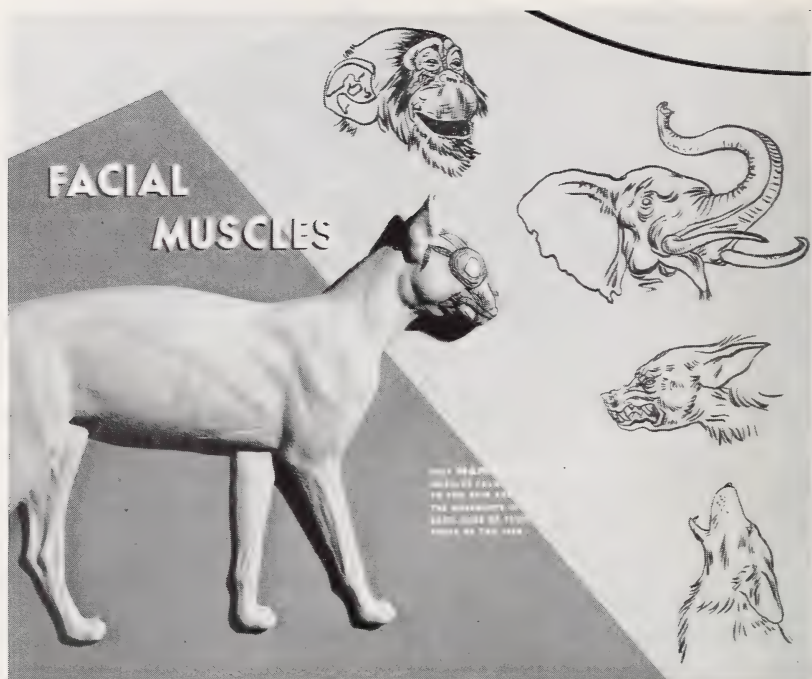
Exhibits—Geology

Early in the year one of the exhibits displaying fossil horses in Ernest R. Graham Hall (Hall 38) was revised by the addition of a newly mounted skeleton (cast) of the Eocene horse *Hyracotherium*. The mount was constructed by Preparator Ronald J. Lambert, and Mrs. Maidi Wiebe Leibhardt, Departmental Artist, painted the restoration. Throughout the year reinstallation of the Hall of Economic Geology (Hall 36) was continued. Ten exhibits were dismantled and reinstalled using cut-out-letter labels. Descriptions of various ores that have increased in economic importance within the past decade were brought up to date.

The months of June, July, and August were devoted to renovation and reinstallation of the Hall of Gems and Jewels (Hall 31, H. N. Higinbotham Hall). The addition of new labels and new pads and the display of several new gems that had been acquired by the Museum in recent years noticeably improved the appearance of the hall.

Two new exhibits were installed in Clarence Buckingham Hall (Hall 35, Moon, Meteorites, and Minerals). One of these graphically illustrates the Hamlet meteorite, which struck the home of Mr. and Mrs. A. C. Hall of Hamlet, Indiana, on October 13, 1959. Included in this exhibit are fragments of the roof of the house damaged by the meteorite, diagrams showing the direction of fall of the meteorite computed from information given by eye witnesses of the fall, and photographs of the locale of the fall. The other exhibit represents one of the largest individuals (845 pounds) of the Canyon Diablo meteorite shower, Canyon Diablo, Arizona.

The exhibition program was carried on by Harry E. Changnon, Curator of Exhibits, in co-operation with Associate Curator Woodland, Curator Olsen, Assistant Henry Horback, and Preparator Henry U. Taylor. Illustrations were competently executed by Mrs. Maidi Wiebe Leibhardt.



PART OF
A NEW EXHIBIT
DEFINING
MAMMALS

Department of Zoology

Research and Expeditions

In southern Asia, the Philippines, Africa, South America, Central America, North America, and the Hawaiian Islands, our staff members were afield, making collections and studying their specialties. In addition, we had one expedition in South America by a non-staff member.

DUTCH GUIANA (SURINAM). Harry A. Beatty, of New York, who started field work in Surinam in 1960, continued collecting birds and mammals through the year (see page 34). In November Curator Philip Hershkovitz began a stay of several months in Surinam (see page 34) to get specimens of mammals from that part of the continent to use as comparative material in his revisions of South American mammals (his field work is financed by a National Science Foundation grant). Accompanying Curator Hershkovitz was Dr. Jack Fooden, postdoctoral fellow, supported by a grant from the National Institute of Health.

PANAMA. Curator Rupert L. Wenzel, in connection with his study of the Streblidae (bat flies) of Panama, made a short study and field trip there in October to observe bats and their parasite flies and to take part in some collecting.

NORTH AMERICA. Associate Curator Henry S. Dybas made short field trips to Virginia and southern Indiana to collect samples of soil to process in insect funnels for the minute insects in them and also to survey localities for possible studies in 1962 and 1963 of periodical cicada emergence.

Curator Robert F. Inger spent about three weeks in February and March in central Florida, studying and recording frog voices (see page 34). This work will correlate with similar work he has done in Africa and Borneo.

Curator Alan Solem made a field trip in Arizona (see page 34) to obtain more material for a study of evolutionary changes in isolated populations of snails, of which fifty-year-old material is available. He was again fortunate in being accompanied by the veteran collector, Munroe L. Walton of Glendale, California.

PACIFIC. In August Curator Solem, accompanied by Mrs. Solem as assistant, started on a study trip (to continue through 1962) that will take them to New Zealand, Australia, and Europe for the purpose of examining landsnails of the Pacific islands in various museums (see page 34). The first stop was Honolulu, where they studied the

splendid material in Bernice P. Bishop Museum. Curator Solem was able also to do some field work in Hawaii. He is financed in part by a grant from the National Science Foundation.

Curator Loren P. Woods spent six weeks in Hawaii as a member of a marine fish-collecting expedition sponsored by the John G. Shedd Aquarium of Chicago.

PHILIPPINE ISLANDS. Associate D. S. Rabor this year utilized his vacation period from Silliman University in the Philippines to make a much-needed collection of birds from southern Luzon.

NEPAL. Field Associate Robert L. Fleming continued his association with the World Book Encyclopedia Scientific Expedition to the Himalayas (see Annual Report 1960, page 24). He collected birds and mammals chiefly at high altitudes.

EGYPT. The work of Research Associate Harry Hoogstraal in Egypt continued to yield specimens of birds and mammals for our collections.

SOUTHERN AFRICA. Associate Curator Melvin A. Traylor, Jr., supported by a National Science Foundation grant, was unable, because of political disturbances, to follow his original plan of working in Angola and, instead, has outlined work in adjacent territories of the Rhodesias and Southwest Africa (see page 34). He started field operations early in October and will continue work into 1962.

DIVISION OF MAMMALS. The first draft of the checklist of South American mammals being prepared by Curator Hershkovitz (aided by a grant from the National Science Foundation) was virtually completed during the year and the section on whales was put into final form for publication. A systematic revision of the South American phyllotine group of rodents was brought up to date for publication, and studies were continued on other difficult groups of South American mammals. Assistant Curator Karl Koopman continued his studies of the bats of northern Africa.

DIVISION OF BIRDS. Curator Emmet R. Blake has continued taxonomic studies of South American birds with special reference to recently received collections from Surinam, Colombia, and Argentina. He has also brought up to date the section of the family of Icterid blackbirds for Peters' *Checklist of Birds of the World* and has seen proof of the section on American crows and jays.

Associate Curator Traylor (aided by a National Science Foundation grant) has been continuing the preparation of a checklist of birds of Angola. He has also continued studies of the migratory birds of Egypt (in connection with the work of Research Associate Hoogstraal on the vectors of arthropod-borne diseases) and of birds of Nepal (in connection with Field Associate Fleming's fieldwork there).

Chief Curator Austin L. Rand, in collaboration with Dr. E. Thomas Gilliard of the American Museum of Natural History, has completed about half of the manuscript for the handbook of birds of New Guinea that was begun last year. He continued taxonomic studies of birds of the Philippines and, with Mrs. Rheua Rand, published *A Midwestern Almanac*, a general book (see page 85). Associate Ellen T. Smith spent part of her time investigating the records of early days in Chicago for material on birds.

DIVISION OF AMPHIBIANS AND REPTILES. Curator Inger, who continued his studies of reptiles and amphibians of Borneo (supported in part by a grant from the National Science Foundation) and of the amphibians of the Parc National de la Garamba (Congo), described several new species of reptiles and amphibians. In collaboration with Dr. Bernard Greenberg of Roosevelt University, he continued studies of the reproductive cycle in the frog *Rana erythraea*. Assistant Curator Hymen Marx has collaborated with Curator Inger in revising a genus of snakes.

DIVISION OF FISHES. Curator Woods continued taxonomic studies of fishes from the Caribbean Sea and adjacent waters and began work on an account of the fishes of the Order Berycoidei for the series "Fishes of the Western North Atlantic," to be published by Sears Foundation. Associate Marion Grey, who continued to occupy herself with the deep-sea fishes of the Caribbean and adjacent waters, began a study of the genus *Anoplogaster* of the Dana Collection. Associate Edward M. Nelson, now at the University of Puerto Rico, completed two papers (using Museum material) that he had begun before leaving Chicago.

DIVISION OF INSECTS. Curator Wenzel spent most of his research time on a study of the parasitic bat flies of Panama (part of Family Streblidae) in collaboration with Major Vernon J. Tipton of the United States Army. Curator Wenzel also prepared a key to the genera of North American histerid beetles and a checklist of the Michigan forms of the family, both for separate publication, and has nearly completed a revision of the New World genera of the family.

Associate Curator Dybas continued studies of the beetles of the families Limulodidae and Ptiliidae and published three short papers on the latter. His studies of the periodical cicada, begun in 1956, have been completed.

Research Associate Charles H. Seevers has nearly completed his monograph of the rove beetles (Family Staphylinidae) that live with ants, a study supported by a grant from the National Science Foundation. Research Associate Alex K. Wyatt prepared a short paper describing a new moth. Associate Harry G. Nelson studied dryo-

poid beetles of the genus *Pelonomus* of tropical America. Associate Lillian A. Ross continued her studies of spiders.

DIVISION OF LOWER INVERTEBRATES. Curator Emeritus Fritz Haas, at the request of the Academy of Natural Sciences (San Francisco), studied certain of their collections from tropical Africa, Madagascar, and Central and South America with the understanding that we retain types and duplicates. Two papers have resulted. Dr. Haas also began a monograph on fresh-water mussels (Unionidae), to be published in the series *Das Tierreich* (Berlin).

Curator Solem made considerable progress on a review of the landsnails of Panama, but his main research was on the snails (endodontids) of the Pacific islands. Assistant Ernest J. Roscoe continued his studies of the mollusks of the pluvial Lake Bonneville in Utah and completed a checklist of the mollusks of Utah.

DIVISION OF ANATOMY. Curator D. Dwight Davis continued his anatomical study of the giant panda. Research Associate R. M. Strong continued his study of the anatomy of birds, and Research Associate Waldemar Meister continued his study of the histological structure of the long bones in penguins.

Care of the Collections—Zoology

Routine in the Department of Zoology demands a wide variety of skills, but none is more exacting than that of turning big, dried, board-hard, raw, mammal skins, as they come from the field, into soft, flexible, tanned skins suitable for handling and study. This is the province of our Tanner, Dominick Villa, and Assistant Taxidermist, Mario Villa.

To aid in their work we have installed a new skin-shaving machine with a rotating circular blade. Formerly, to shave a skin and so make it thin, the soaked skin was draped over a beam and the thick hide pared to an appropriate thinness all over with a two-handed shaving knife that had a turned scraping-edge. The tanner must not cut holes in the skin, or cut into the hair-roots so that the hairs fall out, or leave thick spots that will be stiff. Also with tender skins, such as those of some cats, foxes, and antelopes, and skins in poor condition, stretching or tearing must be avoided. The new shaving machine in which the hide is held against the rotating blade simplifies some of this, but it still does not do away with a skilled operator, such as Dominick Villa, who has carried on this work for us for thirty-one years and on his retirement this year will be succeeded by Mario Villa.

TANNER
DOMINICK
VILLA
USING A
SHAVING KNIFE



Assistant M. Dianne Maurer, in addition to more routine activities, identified small collections of South American birds, prepared study-skins of a few local birds that were brought to the Museum and conducted visitors through the Division of Birds. Assistant Janet Wright, among other duties such as typing and artwork, completed a check of the collection of herpetological reprints and catalogued the histological slides that were made for the study of frog breeding-cycles.

Assistant Pearl Sonoda's activities included processing numerous loans and exchanges, and, with the assistance during the summer of Thomas W. Case, Antioch College student, she saw that the fish collection had the proper amount of preservative. Assistant August Ziemer continued to prepare and label insects for study. Most important of the duties of Assistant Joan Davis Levin was preparation of anatomical drawings for the report on the giant panda for the Division of Anatomy.

Osteologist Sophie Andris continued her task of preparing skulls for the Division of Mammals and skeletons for the Division of Anatomy. F. John Allen, Dennis Buskirk, Miss Aileen M. Wagner, and Stephen J. Parshall, Antioch College students, helped in various phases of insect and mollusk curating.

Accessions—Zoology

Our collections continue to grow at a gratifying rate, as the following figures show: mammals—1,079; birds—4,720; amphibians and reptiles—5,136; fishes—3,695; insects—49,643; lower invertebrates—about 100,000; anatomical material—43 specimens.

An important collection of about 50,000 shells, which is especially rich in Melanesian and South American material, was purchased from a private collector, Walter J. Eyerdam. Mrs. Margaret Teskey donated a valuable collection of about 14,000 nonmarine mollusks representing mostly North American species. A fine collection of Hawaiian tree-snails formed by George F. Arnemann, of Honolulu, was presented by him in memory of his wife, the late Evelyn Lena (Miller) Arnemann.

The Wyatt Collection of North American Lepidoptera, representing sixty-seven years of collecting and study by Research Associate Alex K. Wyatt, who gave it to us, is the most valuable study collection of this group that the Museum has acquired. It contains more than a third of the North American species, brought together by selective collecting and rearing.

COLLECTING
BATS
FROM A
HOLLOW TREE

EXPEDITION
IN
PANAMA



Exhibits—Zoology

"This Is a Mammal" is the title of the new exhibit that has been installed in Hall 15 (Mammals in Systematic Arrangement) as the first completed step in reinstalling the hall. Around a mounted cat, which is used as an example of a mammal, are grouped arrangements of bones, pieces of skin, models, diagrams, and paintings to present visually the characteristics of the class Mammalia in skin, muscle, organs, bones, care (suckling) of young, and warm-bloodedness (see illustration on page 54). Preliminary preparation of material for the next four exhibits in the series is well advanced with mounting most of the small mammals needed and making models for explanatory materials.

The model of the strange coelacanth fish known as *Latimeria chalumnae*, which the Museum purchased in 1958 (see Annual Report 1958, page 72), has finally been placed on exhibition. It has a case to itself in the Hall of Fishes (Hall O), as befits the uniqueness of this "living fossil" from the sea off the East African coast (see page 67 for illustration). Just opposite it is the exhibit of other "living fossil fishes," which was revised last year.

The renovation of older exhibits is progressively taking more time. This year, work on the walrus exhibit in the Hall of Marine Mammals (Hall N) was completed, which included cleaning the animals, renewing the accessories (chiefly snow), and repairing the background, and work has been started on the group of elephant seals, which needs similar attention. The disintegration of fins in the plastic models of fishes in Hall O is assuming serious proportions, and this, with water seepage in the habitat group of fishes of the Texas coast, has necessitated extensive repairs that are now under way.

Exhibition work was carried on by Artist Joseph B. Krstolich, Taxidermist Carl W. Cotton, and Assistant Taxidermist Peter Anderson. Artwork was prepared by Staff Artist E. John Pffner, who also assisted with design.

LIBRARY OF THE MUSEUM

PUBLIC RELATIONS

SCIENTIFIC SOCIETIES

CO-OPERATION

MOTION PICTURES

PHOTOGRAPHY AND
ILLUSTRATION

THE BOOK SHOP

PUBLICATIONS AND
PRINTING

MAINTENANCE, CONSTRUCTION
AND ENGINEERING

WHALEBONE
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LIBRARY OF THE MUSEUM

The grand total of 10,336 items received in the Library during the year included books, periodicals, microfilms, photostats, maps, atlases, and musical recordings. The preponderance of these receipts consisted of serials, journals, and monographs provided through the exchange program maintained by the Museum with scientific and learned societies and other research centers both in this country and abroad. All together, 8,501 such items, including journals received on paid subscription, were recorded on the Kardex during the year.

Several exchanges that had been temporarily suspended were reactivated. The majority of these exchanges were located in European countries where reorganization of societies and institutions had taken place following World War II. The work performed by these centers is embodied in their publications, which form the immediate and primary working tools of the scientist, providing him with the very latest results of specific research.

Books and journals not obtainable by exchange and urgently needed in special-subject areas of the Museum's fields of interest were purchased. Of the 1,015 book orders placed, 974 had been received by the end of the year, and 2,015 volumes were accessioned. Because of limitations in the budget, many recommended titles, new and old, were set aside for further consideration. This list of desiderata continues to grow from year to year.

The cataloguing division is responsible for making the literature in the Library readily available for use. In all, 17,664 cards were filed in the general catalogue and departmental catalogues. In the preparation of subject entries for the Library's catalogue, the cataloguing division uses, as a basic reference, *Subject Headings Used in the Dictionary Catalogs of the Library of Congress . . .* (5th edition), a comprehensive volume of 1,204 pages. Over the years, the division has added innumerable additions, corrections, and emendations to bring the list of subject headings into conformity with the special needs of this Museum.

Considering the great growth of the Library's subject catalogue and the crowded condition of the "Subject Headings List," the Library decided to create an Authorities File for Subjects, similar to the Authorities File for Authors set up in 1957. Using the Library's subject catalogue and the "Subject Headings List," Miss Ann Williams, a library trainee from Hiram College working in the Library during the summer months, prepared subject headings and cross-reference cards for the letters A-G, a total of 7,105 cards. The cataloguers are now engaged in the painstaking work of revis-

ing these cards to eliminate duplication and to provide additional cross-references. It is believed that this procedure will contribute substantially to the usefulness of the Library's subject catalogue, not only for the staff, but for the general public as well.

To date, 1,952 subject headings have been revised and 1,512 additional cards have been included; 3,939 cards have been added during the year to the Authorities File for Authors. The cataloguing division further reports that 1,809 new titles, comprising 2,041 volumes, were catalogued during the year. In line with the reclassification program, 406 titles, comprising 2,613 volumes, were reclassified. All together, 2,215 titles and 4,654 volumes were processed and 1,340 analytics were made for monographs and selected subjects not included in published indexes. The listing of current holdings for inclusion in the third edition of the *Union List of Serials* was completed, and 631 cards were contributed to the National Union Catalog, representing literature unique in its field held in the Library.

Chih-wei Pan, under the supervision of the cataloguing division, has completed the descriptive cataloguing and typed main entry cards for 557 Chinese and Japanese works in the East Asian Library. These cards replace the original cards prepared by hand by Dr. Hoshien Tchen. The cards follow the form adopted by this Library for the cataloguing of works in Oriental languages. The main entry appears under the name of the author (or in some cases the title) in the original language with a translation into English of the title and a brief commentary, followed by a recapitulation in Chinese characters of the same information.

A large part of the Library's collection is housed in different locations throughout the Museum. This physical arrangement of the collections makes it impossible to indicate statistically the extensive use made of these hundreds of books on specialized subjects by the curators and their colleagues. Circulation figures for the Reading Room only show that 2,332 books were used by 524 visitors who made reference use of the Library's resources. These resources are not limited to the staff of the Museum or to members of the general public, but are further extended by interlibrary loans—71 libraries borrowed 222 volumes and the Museum Library in turn borrowed 131 volumes from 26 libraries. The reference division provided additional service to individuals who either wrote or telephoned their queries, by supplying them with the desired information or referring them to an authoritative source.

Altogether 1,446 volumes, mostly of serial publications, were prepared and sent to the bindery, an increase of 356 volumes over the preceding year. The efforts of the bindery division continued to

show gratifying results in the preservation and conservation of the Library's valuable research materials. During the course of the year 440 volumes were repaired in the Museum Library, and 4,441 volumes were labeled and bookplated. The year's activities included the usual task of shifting volumes in the general and departmental libraries in order to relieve congestion on the shelves caused by the continued influx of serial publications.

The program of removing duplicate and unwanted materials continued with the withdrawal of 246 items. The items not discarded were disposed of by exchange or sale. The net proceeds of material sold totaled \$357.64.

The Library is frequently called upon to translate correspondence and miscellaneous items into English. More than 220 items, some short and others long and involved, were translated.

Many important gifts were received in the Library from members of the Museum staff and other individuals. This opportunity is taken to express our appreciation to the donors whose names appear on page 103.

In co-operation with the student-training program of Antioch College, the Library was pleased to have the services of Miss Estelle Regolsky, Miss Karen Jorgensen, Miss Mary Jane Gaston, and Donald Hackett. The clerical assistance provided by these students enabled the Library staff to give greater attention to the professional aspects of the work at hand.

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PUBLIC RELATIONS

During 1961 the Division of Public Relations launched a new program, expanded its general publicity procedures, established new office routines, and maintained the changes and gains in program begun last year.

In January a featured exhibit-of-the-month program was started. Its purpose is to focus public attention on the permanent exhibits of the Museum, a different one of which is selected for featuring each month. This program has not only been useful in highlighting new exhibits—which have ranged from a single exhibit to a whole new hall—but it has renewed public interest in older permanent exhibits and has encouraged visitors to seek acquaintance with less familiar areas of the Museum. Also, radio and television interviews were regularly arranged so that the curators responsible for the exhibits might bring them to the attention of still another audience.

The Museum wishes particularly to express its appreciation to *Chicago's American*, the *Chicago Daily News*, the *Chicago Sun-Times*, and the *Chicago Tribune* for regularly carrying feature articles and attractive picture-spreads—both in color and in black-and-white—about each month's exhibit. On the national level, response included feature articles in *Time* magazine and the *New York Times*, pickups by the national press services, several listings in the "Life Guide" of *Life* magazine, and an unprecedented coverage in news media all over the world for July's featured exhibit, "Primitive Artists Look at Civilization." The continuing co-operation of many local community newspapers is also noted with thanks and appreciation. The Museum's monthly *Bulletin* continued to provide a fruitful source of features and stories for both the local and the nation-wide syndicated press.

Among other procedures begun during the year was the establishment of filing systems for a large variety of records and photographs, primarily intended to aid the Division of Public Relations in carrying out more smoothly and promptly its responsibility to render service to the communications media and the general public. In addition, the program of distributing posters and mailing pieces advertising the Museum's summer events was expanded. For their continued courtesy in displaying, without charge, a number of publicity placards, the Museum wishes to thank the North Western Railway, Chicago Transit Authority, and Illinois Central System. Museum notices appeared in *Chicago Exhibitions Calendar* (published quarterly by the Adult Education Council) and *This Week in Chicago* (distributed by hotels and organizations concerned with tourists).

ACTIVITIES OF STAFF MEMBERS IN SCIENTIFIC AND PROFESSIONAL SOCIETIES

Ten specialists—archaeologists and climatologists—accepted the invitation of Dr. Paul S. Martin, Chief Curator of Anthropology, to attend a conference at the field camp of the Museum's Southwest Archaeological Expedition at Vernon, Arizona. Discussions were concentrated on problems of obtaining and interpreting archaeological data and ways of furthering co-operation. The meeting was made possible by a grant from the National Science Foundation.

Chief Curator Martin attended the annual Pecos Conference on southwestern archaeology at Nevo Casas Grandes (Mexico), the Southwestern Ceramic Conference at the Museum of Northern Arizona (with Dr. John B. Rinaldo, Associate Curator of Archaeology), and the meetings at Philadelphia of the American Anthropological Association. Dr. Donald Collier, Curator of South American Archaeology and Ethnology, George I. Quimby, Curator of North American Archaeology and Ethnology, Dr. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, and Phillip H. Lewis, Curator of Primitive Art, also attended the meetings of the American Anthropological Association, where Curator Quimby and Curator Force presented papers.

Curator Force attended the meeting of the Central States Anthropological Society at Ohio State University (where he was elected first vice-president) and the Tenth Pacific Science Congress of the Pacific Science Association at the University of Hawaii (where he was chairman of a session and convener). Chief Curator Martin, Curator Collier, and Curator Quimby attended meetings of the Society for American Archaeology at Ohio State University, where Curator Quimby presented a paper. Allen S. Liss, Custodian of Collections, attended meetings of the Illinois Archaeological Survey in Urbana and served as judge of projects for the Junior Academy of Sciences.

During the summer Dr. Hoshien Tchen, Consultant for the East Asian Collection, visited Taiwan to attend the educational and cultural sessions of the important Yang-ming Shan Forum, which was held near the capital city of Taipei. During his stay on Taiwan Dr. Tchen spoke over the Taiwan radio and described the educational activities of the Museum, particularly those relating to Asiatic archaeology and ethnology.

John R. Millar, Chief Curator of Botany, attended the Conference of Directors of Systematic Collections at San Francisco and, with Dr. Louis O. Williams, Curator of Central American



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Botany, the American Institute of Biological Sciences at Purdue University. Curator Williams attended the meeting of the Society for Economic Botany at Cambridge. Dr. C. Earle Smith, Jr., Associate Curator of Vascular Plants, continued to serve as secretary of the systematics section of the Botanical Society of America.

Dr. Robert H. Denison, Curator of Fossil Fishes, was elected vice-president and Dr. Rainer Zangerl, Curator of Fossil Reptiles, was elected secretary-treasurer of the Society of Vertebrate Paleontology at its annual meeting, which was held at Chicago Natural History Museum. Curator Denison attended a Gordon Research Conference on chemistry, physiology, and structure of bones and teeth and gave a lecture. William D. Turnbull, Assistant Curator of Fossil Mammals, and Orville L. Gilpin, Chief Preparator of Fossils, attended the Field Conference held in western Nebraska by the Society of Vertebrate Paleontology.

Dr. Austin L. Rand, Chief Curator of Zoology, attended the meetings in Washington of the American Ornithologists' Union. Other members of the staff of the Department of Zoology who attended meetings of scientific societies in their fields were: Philip Hershkovitz, Curator of Mammals, and Dr. Karl Koopman, Assistant Curator—American Society of Mammalogists (in Urbana); Dr. Robert F. Inger, Curator of Amphibians and Reptiles—American Society of Ichthyologists and Herpetologists (in Austin); Loren P. Woods, Curator of Fishes—American Institute of Biological Sciences (at Purdue University); Henry S. Dybas, Associate Curator of Insects—North Central Branch of the Entomological Society of America (in Kansas City); Dr. Fritz Haas, Curator Emeritus of Lower Invertebrates—American Malacological Union (in Santa Barbara); Dr. Alan Solem, Curator of Lower Invertebrates, and Ernest J. Roscoe, Assistant—American Malacological Union (in Washington); Curator Solem—Pacific Science Congress (in Honolulu); and D. Dwight Davis, Curator of Vertebrate Anatomy—American Society of Mammalogists (in Urbana), American Society of Zoologists (in Denver), and the Society for the Study of Evolution (at Purdue University).

Dr. Clifford C. Gregg, Director of the Museum, and E. Leland Webber, Assistant Director, attended the annual meeting of the Association of Science Museum Directors at Cranbrook Institute of Science, where Dr. Gregg introduced a panel discussion. Dr. Gregg also attended the annual meeting in Detroit of the American Association of Museums, at which he was one of three panel speakers on federal support of museums. Members of the staff who also attended the meeting of the American Association of Museums were Assistant

Director Webber, Chief Curator Millar, Curator Force, Custodian Liss, and Miss Miriam Wood, Chief of Raymond Foundation. Miss Wood, who was vice-president at large of the Midwest Conference of Museums for 1960-61, attended the meetings in Lansing of the Midwest Conference of Museums.

The Museum Library was represented at the annual convention in San Francisco of Special Libraries Association by the Librarian, Mrs. Meta P. Howell, and the Associate Librarian, Mrs. M. Eileen Rocourt. They took advantage of the specialized activities pertaining to the functions of the Museum's Library that were on the program of the convention. Local meetings of the American Library Association and Special Libraries Association were attended by members of the Library staff during the year.

Members of the Museum staff who continued to serve in various editorial capacities on scientific journals include Curator Collier, *American Antiquity*; Curator Davis, *Evolution* (managing editor); Curator Inger, *Copeia*; Associate Curator Rinaldo, *Archives of Archaeology*; Curator Thieret, *Economic Botany*; Assistant Curator Turnbull, *Säugertierkundliche Mitteilungen* (Stuttgart, Germany) and *Society of Vertebrate Paleontology News Bulletin*; Curator Williams, *Economic Botany*; and Curator Woods, *The American Midland Naturalist*.

Numerous articles and reviews are contributed by members of the Museum's scientific staff to various learned journals. A list of some of this material in 1961, including books by staff members not published by the Museum but on subjects within the Museum's field of interest and research, begins on page 83.

CO-OPERATION WITH OTHER INSTITUTIONS

Dr. Donald Collier, Curator of South American Archaeology and Ethnology, George I. Quimby, Curator of North American Archaeology and Ethnology, and Dr. Kenneth Starr, Curator of Asiatic Archaeology and Ethnology, taught courses at the University of Chicago, and Curator Collier and Curator Quimby lectured at the University of Illinois (Urbana). In collaboration with the Milwaukee Public Museum and the Milwaukee Art Center, Dr. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, and Curator Collier lectured in Milwaukee. The course in museology, which is given by the entire staff of the Museum's Department of Anthropology in co-operation with the Department of Anthropology of the University of Chicago, was continued at the Museum (Miss Mary Hogquist held the Museum Fellowship of the University of Chicago during 1960-61, and Fecadu Gadamu, from Addis Ababa, Ethiopia, was awarded the fellowship for 1961-62).

Dr. John W. Thieret, Curator of Economic Botany, taught an undergraduate course at the University of Chicago during the spring.

Under the Visiting Scientist Program of the American Geological Institute, Dr. Rainer Zangerl, Curator of Fossil Reptiles, was invited to lecture at West Texas State Teachers College and at Brigham Young University. Dr. Edward J. Olsen, Curator of Mineralogy, gave six lectures at the evening division of Indiana University Extension (South Bend) and also lectured at the Illinois Institute of Technology. Bertram G. Woodland, Associate Curator of Petrology, addressed the Geology Club of Northwestern University. Harry E. Changnon, Curator of Exhibits, conducted six geology field trips for the Chicago Academy of Sciences.

Dr. Robert F. Inger, Curator of Amphibians and Reptiles, lectured at the University of Southern California and at San Diego State College; Loren P. Woods, Curator of Fishes, lectured before the Institute for Biology Teachers at Earlham College and at the University of Hawaii; Ernest J. Roscoe, Assistant in the Division of Lower Invertebrates, lectured at the University of Utah; D. Dwight Davis, Curator of Vertebrate Anatomy, lectured at the University of Chicago and at the University of Illinois (Navy Pier) and delivered four lectures for a joint program between the Chicago Academy of Sciences and Chicago Teachers College; and Henry S. Dybas, Associate Curator of Insects, gave a seminar at the University of Chicago. Dr. Austin L. Rand, Chief Curator of Zoology, was awarded the honorary degree of Doctor of Science by his alma mater, Acadia University, Nova Scotia, Canada.

Classes from many universities and colleges in the United States and Canada visited the scientific departments of the Museum or otherwise used the Museum's facilities. Supervised classes from a number of art schools continued to use the Museum exhibits as part of their regular classwork in sketching, painting, and modeling (see page 33). The Chicago Area Science Fair (sponsored by the Chicago Teachers Science Association) and Chicago Latin Day (sponsored by the Illinois Classical Conference for Latin Students of the Chicago Area) were held in the Museum.

The Library of the Museum collaborated during the year with Rosary College Library School and the Graduate Library School of the University of Illinois in their programs of assigning students to various libraries for on-the-job training in library techniques (two students were instructed in the specialized work of this Library). Under the co-operative plan adopted in 1946 by this Museum and Antioch College eighteen students were employed in 1961 by the Museum (their names are listed in appropriate places in this Report).

Various local organizations continued to use the Museum for their regular meetings or for lectures. Among them were the Adult Education Council, Chicago Police Academy, Citizenship Council of the Board of Education, Illinois Orchid Society, Kennicott Club, Nature Camera Club of Chicago, and Orcheses Dance Group of the University of Illinois.

The Free Concerts Foundation presented ten concerts in James Simpson Theatre of the Museum. These were varied programs arranged and financed by Mrs. J. Dennis Freund, an Associate Member of the Museum and organizer and president of the Free Concerts Foundation. The programs included notable music and musicians who had not been heard previously in Chicago or who had not appeared here for an undue length of time. The Free Concerts Foundation has been eminently successful in accomplishing its avowed purpose of stimulating interest in chamber music and of offering free to students of music an opportunity to hear outstanding artists.

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"PRIMITIVE ARTISTS LOOK AT CIVILIZATION"
HALL OF PRIMITIVE ART (HALL 2)

MOTION PICTURES

General inspection of all film-subjects in the Museum's Film Library, which includes repair, cleaning, and replacement of damaged sections, was accomplished on the usual twice-a-year basis. Cataloguing and accessioning films, now numbering 108 complete productions, were continued, and checking film in the footage library (which contains thousands of feet of film on miscellaneous natural-history subjects) was completed.

During the year "Through These Doors," the film that pictures Museum activities, was screened by fifty-five schools throughout the Chicago area for thousands of school children. Various adult groups also requested use of the film, which is lent free, but, with only eight prints of the film available at the present time, all requests could not be filled.

All photography, editing, and script preparation for the Museum's new film (yet to be titled) have been completed. It is planned that this new film will be ready for showing early in 1962.

PHOTOGRAPHY AND ILLUSTRATION

John Bayalis and Homer V. Holdren, assisted by Ferdinand Huysmans, increased production in the Division of Photography, the items handled reaching a total of 158,487 (which included 1,882 new negatives and 32,592 contact prints, in addition to enlargements, Kodachromes, and other special orders). The quality of their work continued to meet the high standards of the Museum. Filing and maintenance of records were capably handled by Miss Mary Creed, as customary.

E. John Pfiffner, Staff Artist, and Miss Marion Pahl, Staff Illustrator, continued to produce a wide variety of drawings and layouts. Demands upon them for their specialized services were heavy, but as usual they responded to the challenge.

THE BOOK SHOP

Sales of books, souvenirs, and novelties through the Museum Book Shop, which were slightly less than the sales of the previous year, amounted to \$182,327. Sales by mail still were a considerable item. The Book Shop continued to be a source of authoritative information for schools, students, and naturalists in general.

PUBLICATIONS AND PRINTING

Following the pattern of recent years, activity in the Division of Publications again reached record levels. Shipment of publications without charge under exchange agreements totaled 24,461 copies, which is a higher total than in any previous year except 1946 and 1947 when publications that had accumulated during World War II were distributed. Sales of 72,425 copies were 11 per cent more than 1960 sales and the highest in the Museum's history.

Many of the Museum's mailing operations have been located for a number of years in the Division of Publications. In a further consolidation virtually all Museum mailing and mimeographing were centralized there during 1961. George Kasha, who was employed to handle this considerably augmented work, co-operated closely with Raymond A. N. Gomes and Miss Hilda Nordland, and the transition was smoothly accomplished.

During the year the Museum issued 37 publications in its scientific series, 4 reprints in its popular series, 1 reprint of a special publication, 1 annual report, 1 guidebook, 1 index, and 16 Museum Storybooks (9 reprints). Of these, copies printed by the Museum Press totaled 126,081 from 2,197 pages of type composition. Twelve issues of *Chicago Natural History Museum Bulletin* were printed, averaging 8,911 copies an issue. In addition there were posters, price lists, lecture programs, invitations, announcements, post cards, and looseleaf Museum Stories (for the Raymond Foundation), totaling 994,340 impressions.

Publications issued by the Museum in 1961 are listed on the following pages. Titles of articles by staff members printed in volume 32 of the Museum's *Bulletin* are also given.

MUSEUM PUBLICATIONS IN 1961

DEPARTMENT OF ANTHROPOLOGY

LEWIS, PHILLIP H.

A Definition of Primitive Art, Fieldiana: Anthropology, volume 36, number 10, 21 pages, 5 illustrations

MARTIN, PAUL S., JOHN B. RINALDO, AND WILLIAM A. LONGACRE

Mineral Creek Site and Hooper Ranch Pueblo, Eastern Arizona, Fieldiana: Anthropology, volume 52, 181 pages, 97 illustrations

DEPARTMENT OF BOTANY

MACBRIDE, J. FRANCIS

Flora of Peru, Botanical Series, volume 13, part 5c, number 1, 105 pages

SCHWEINFURTH, CHARLES

Orchids of Peru, Fieldiana: Botany, volume 30, number 4, 227 pages, 34 illustrations

WILLIAMS, LOUIS O.

Tropical American Plants, II, Fieldiana: Botany, volume 29, number 6, 30 pages

STANDLEY, PAUL C., AND LOUIS O. WILLIAMS

Flora of Guatemala, Fieldiana: Botany, volume 24, part 7, number 1, 193 pages, 29 illustrations

DEPARTMENT OF GEOLOGY

COLBERT, EDWIN H.

The Triassic Reptile, Poposaurus, Fieldiana: Geology, volume 14, number 4, 20 pages, 5 illustrations

KJELLESVIG-WAERING, ERIK N.

Eurypterids of the Devonian Holland Quarry Shale of Ohio, Fieldiana: Geology, volume 14, number 5, 20 pages, 20 illustrations

NITECKI, MATTHEW H.

Catalogue of Type Specimens of Foraminifera in the Walker Museum of Paleontology, Fieldiana: Geology, volume 13, number 2, 54 pages

DEPARTMENT OF ZOOLOGY

BLAKE, EMMET R.

A New Peruvian Race of Crypturellus obsoletus, Fieldiana: Zoology, volume 39, number 51, 3 pages

Notes on a Collection of Birds from Northeastern Colombia, Fieldiana: Zoology, volume 44, number 4, 20 pages

Variation in Myiozetetes luteiventris, Fieldiana: Zoology, volume 44, number 9, 4 pages

BLAKE, EMMET R., GUNNAR HOY, AND FRANCISCO CONTINO

Variation in the Quail-dove Geotrygon frenata, Fieldiana: Zoology, volume 39, number 50, 6 pages

COCHRAN, DORIS M., AND COLEMAN J. GOIN

A New Genus and Species of Frog (Leptodactylidae) from Colombia, Fieldiana: Zoology, volume 39, number 48, 4 pages, 1 illustration

MUSEUM PUBLICATIONS IN 1961

DELFINADO, MERCEDES D.

Haemolaelaps travisi, a New Species of Mite from the Philippines (Laelaptidae: Acarina), Fieldiana: Zoology, volume 44, number 6, 3 pages, 1 illustration
Philippine Zoological Expedition 1946-1947, The Philippine Biting Midges of the Genus Culicoides (Diptera: Ceratopogonidae), Fieldiana: Zoology, volume 33, number 7, 63 pages, 7 illustrations

DELFINADO, MERCEDES D., AND EDWARD W. BAKER

Tropilaelaps, a New Genus of Mite from the Philippines (Laelaptidae [s. lat.]: Acarina), Fieldiana: Zoology, volume 44, number 7, 4 pages, 2 illustrations

DRAKE, CARL J.

Philippine Zoological Expedition 1946-1947, A New Genus and Species of Cantacaderine Lace-bug from the Philippines (Hemiptera: Tingidae), Fieldiana: Zoology, volume 42, number 9, 4 pages, 1 illustration

DYBAS, HENRY S.

A New Fossil Feather-wing Beetle from Baltic Amber (Coleoptera: Ptiliidae), Fieldiana: Zoology, volume 44, number 1, 9 pages, 5 illustrations

A New Genus of Feather-wing Beetles from Termite Nests in Bolivia (Coleoptera: Ptiliidae), Fieldiana: Zoology, volume 44, number 8, 6 pages, 2 illustrations
Two New Genera of Feather-wing Beetles from the Eastern United States (Coleoptera: Ptiliidae), Fieldiana: Zoology, volume 44, number 2, 8 pages, 4 illustrations

FLEMING, ROBERT L., AND MELVIN A. TRAYLOR, JR.

Notes on Nepal Birds, Fieldiana: Zoology, volume 35, number 8, 47 pages, 4 maps

FOUQUETTE, M. J., JR.

Status of the Frog Hyla albomarginata in Central America, Fieldiana: Zoology, volume 39, number 55, 7 pages, 3 illustrations

HAAS, FRITZ

New Land Mollusks from Madagascar and Mexico, Fieldiana: Zoology, volume 44, number 3, 5 pages, 3 illustrations

HERSHKOVITZ, PHILIP

On the Nomenclature of Certain Whales, Fieldiana: Zoology, volume 39, number 49, 19 pages

On the South America Small-eared Zorro Atelocynus microtis Slater (Canidae), Fieldiana: Zoology, volume 39, number 44, 19 pages, 7 illustrations

INGER, ROBERT F.

Notes on Two New Guinean Lizards of the Genus Sphenomorphus, Fieldiana: Zoology, volume 39, number 47, 4 pages, 1 illustration

INGER, ROBERT F., AND ALAN E. LEVITON

A New Colubrid Snake of the Genus Pseudorabdion from Sumatra, Fieldiana: Zoology, volume 44, number 5, 3 pages, 1 illustration

INGER, ROBERT F., AND J. I. MENZIES

A New Species of Toad (Bufo) from Sierra Leone, Fieldiana: Zoology, volume 39, number 54, 6 pages, 2 illustrations

INGER, ROBERT F., AND J. D. ROMER

A New Pelobatid Frog of the Genus Megophrys from Hong Kong, Fieldiana: Zoology, volume 39, number 46, 6 pages, 1 illustration

MUSEUM PUBLICATIONS IN 1961

LAIDLAW, FRANK FORTESCUE, AND ALAN SOLEM

The Land Snail Genus Amphidromus, A Synoptic Catalogue, Fieldiana: Zoology, volume 41, number 4, 175 pages, 26 illustrations

LIEFTINCK, MAURITS A.

Philippine Zoological Expedition 1946-1947, New and Interesting Odonata from the Philippines, Fieldiana: Zoology, volume 42, number 10, 31 pages, 9 illustrations

NELSON, EDWARD M.

The Swim Bladder in the Serrasalminae, With Notes on Additional Morphological Features, Fieldiana: Zoology, volume 39, number 56, 22 pages, 9 illustrations

RAND, AUSTIN L.

The Tongue and Nest of Certain Flowerpeckers (Aves: Dicaeidae), Fieldiana: Zoology, volume 39, number 53, 7 pages, 2 illustrations

RAND, AUSTIN L., AND DIOSCORO S. RABOR

A New Race of Crow, Corvus enca, from the Philippines, Fieldiana: Zoology, volume 39, number 52, 3 pages

SOLEM, ALAN

New Caledonian Land and Fresh-water Snails, An Annotated Check List, Fieldiana: Zoology, volume 41, number 3, 89 pages, 8 illustrations

WOODS, LOREN P.

A New Berycoid Fish from Brazil (Family Trachichthyidae), Fieldiana: Zoology, volume 39, number 45, 7 pages, 2 illustrations

JAMES NELSON AND ANNA LOUISE RAYMOND FOUNDATION

ANDRE, MARYL

Whales, Museum Storybook [9 Museum Stories], 21 pages, 9 illustrations, paperbound

STAFF MEMBERS OF RAYMOND FOUNDATION

Desert Life, Museum Storybook [7 Museum Stories], 21 pages, 10 illustrations, paperbound

Small Living Things, Museum Storybook [8 Museum Stories], 20 pages, 13 illustrations, paperbound

STEPHENS, LORAIN

Common Insects, Museum Storybook [9 Museum Stories], 21 pages, 9 illustrations, paperbound [second edition]

SVOBODA, MARIE

Spices, Museum Storybook [9 Museum Stories], 21 pages, 9 illustrations, paperbound

Trees, Museum Storybook [8 Museum Stories], 20 pages, 8 illustrations, paperbound

[WOOD, MIRIAM, AND OTHERS]

Living Giants, Museum Storybook [9 Museum Stories], 21 pages, 10 illustrations, paperbound [second edition]

MUSEUM PUBLICATIONS IN 1961

OTHER MUSEUM PUBLICATIONS

General Guide, Chicago Natural History Museum, 48 pages, 32 illustrations, floor plans, map [fortieth edition]

Report of the Director to the Board of Trustees for the Year 1960, 187 pages, 26 illustrations

CHICAGO NATURAL HISTORY MUSEUM BULLETIN

Chicago Natural History Museum Bulletin, volume 32 [1961], 12 numbers, 100 pages, illustrated

THE FOLLOWING ARTICLES AND REVIEWS BY STAFF MEMBERS OF CHICAGO NATURAL HISTORY MUSEUM ARE PRINTED IN VOLUME 32 OF THE BULLETIN:

[BEATTY, HARRY]

"Surinam Diary," no. 12, pp. 5, 8, 1 illustration [excerpts prepared by Austin L. Rand]

BLAKE, EMMET R.

"A Bird's Eye View of the Museum's Newest Exhibit," no. 1, pp. 6-7, 5 illustrations

DENISON, ROBERT H.

"New Fossil Fishes from Wyoming," no. 6, pp. 6-8, 3 illustrations

FORCE, ROLAND W.

"A Panorama of the Pacific," no. 5, pp. 2-5, 12, 11 illustrations and cover picture

GIBSON, DOROTHY

"Plant Dyes and Scottish Tartans," no. 9, p. 8, cover picture

HERSHKOVITZ, PHILIP

"This Is a Mammal," no. 6, pp. 3, 8, 3 illustrations

INGER, ROBERT F.

Review of *Living Amphibians of the World* [by Doris M. Cochran], no. 10, p. 7
Review of *The Care of Pet Turtles* [by Herndon G. Dowling and Stephen Spencook], no. 2, p. 7

LEWIS, PHILLIP H.

"Primitive Artists Look at Civilization," no. 7, pp. 2-3, 8, 7 illustrations and cover picture

MILLAR, JOHN R.

"1921-1961: 40 Years Recalled," no. 5, pp. 6-7, 1 illustration

"This Month's Cover," no. 4, p. 8, 1 illustration and cover picture

NELSON, PAULA R.

"Expedition!" no. 3, pp. 3-5, 3 illustrations

"Gems from the Urals," no. 10, pp. 4-5, 7 illustrations and cover picture

"Isis: Wife and Mother of the Sun," no. 12, p. 2, 1 illustration and cover picture

"Prehistoric Art of the Libyan Desert," no. 12, p. 4, 3 illustrations

"Tibet!" no. 2, p. 8, 3 illustrations and cover picture

"Winter Fur 'n Feathers," no. 12, pp. 3, 7-8, 1 illustration

MUSEUM PUBLICATIONS IN 1961
THE MUSEUM BULLETIN (CONTINUED)

OLSEN, EDWARD J.

"A Hole in the Bottom of the Sea," no. 9, pp. 4-7, 3 illustrations

Review of *The Story of Geology* [by Jerome Wyckoff], no. 1, p. 3, 1 illustration

RAND, AUSTIN L.

Review of *Mark Catesby—The Colonial Audubon* [by George Frederick Frick and Raymond Phineas Stearns], no. 7, p. 5

ROSCOE, ERNEST J.

Review of *How to Know the American Marine Shells* [by R. Tucker Abbott], no. 10, pp. 7-8

Review of *1001 Questions Answered about the Seashore* [by N. J. Berrill and Jacquelyn Berrill], no. 7, p. 5

Review of *The Lower Animals, Living Invertebrates of the World* [by Ralph Buchsbaum and Lorus J. Milne], no. 2, p. 7, 1 illustration

ROY, SHARAT K.

"Messengers from Outer Space," no. 11, pp. 3, 7-8, 3 illustrations

SMITH, ELLEN T.

"Early Records of Chicagoland Birds," no. 8, pp. 3-5, 4 illustrations

SOLEM, ALAN

"Gems of the Everglades," no. 5, pp. 8-9, 2 illustrations

"Wanted: Used Snail Shells," no. 4, p. 3, 2 illustrations

STARR, KENNETH

"A Chinese Calendar Screen," no. 1, p. 8, 2 illustrations and cover picture

THIERET, JOHN W.

"Kerguelen's Cabbage," no. 4, pp. 4-5, 8, 1 illustration

TURNBULL, WILLIAM D.

"A Fossil Carnivore Den," no. 11, pp. 4-5, 3 illustrations

WIEBE, MAIDI

"Standing at the Wellsprings of the World's Art," no. 2, pp. 4-7, 7 illustrations

WILLIAMS, LOUIS O.

"Market Day in Antigua," no. 7, pp. 6-7, 3 illustrations

WOODS, LOREN P.

"Fish Collecting in Hawaii," no. 8, pp. 6-8, 6 illustrations

OTHER PUBLICATIONS OF STAFF MEMBERS IN 1961

DEPARTMENT OF ANTHROPOLOGY

COLLIER, DONALD

"Agriculture and Civilization on the Coast of Peru," in *The Evolution of Horticultural Systems in Native South America: Causes and Consequences* (edited by Johannes Wilbert) [Anthropologica, supplement no. 2, Sociedad de Ciencias Naturales La Salle, Caracas], pp. 101-109

"New Radiocarbon Method for Dating the Past, with Addendum on Developments, 1951-1960," in *The Biblical Archaeologist Reader* (edited by G. Ernest Wright and David Noel Freedman) [Anchor Books, New York], pp. 330-337

FORCE, ROLAND W.

"Keys to Cultural Understanding," in *Science*, vol. 133, no. 3460, pp. 1202-1206 [with Maryanne Force]

"The Arts of Oceania" [part 1], in *The Delphian Quarterly*, vol. 44, no. 2, pp. 35-40

"The Arts of Oceania" [part 2], in *The Delphian Quarterly*, vol. 44, no. 3, pp. 16-19, 26

Review of *Archaeological Excavations in Yap* (by E. W. and D. S. Gifford), in *Archaeology*, vol. 14, no. 3, p. 221

LEWIS, PHILLIP H.

"An Aspect of Change in Primitive Art," *The Delphian Quarterly*, vol. 44, no. 4, pp. 4-9, 3 illustrations

"The Artist in New Ireland Society," in *The Artist in Tribal Society* [Proceedings of a Symposium held at the Royal Anthropological Institute] (edited by Marian W. Smith) [Routledge & Kegan Paul Ltd., London], pp. 71-79, 83-85

MARTIN, PAUL S.

"A Human Effigy of Stone Found in a Great Kiva," in *The Kiva*, vol. 26, no. 4, pp. 1-5

QUIMBY, GEORGE I.

"Cord Marking Versus Fabric Impressing of Woodland Pottery," *American Antiquity*, vol. 26, no. 3, pp. 426-428

"Prehistoric Copper Pits on the Eastern Side of Lake Superior" [with James B. Griffin], in *Lake Superior Copper and the Indians: Miscellaneous Studies of Great Lakes Prehistory* (edited by James B. Griffin) [Anthropological Papers, no. 17, Museum of Anthropology, University of Michigan], pp. 77-82

"The McCollum Site, Nipigon District, Ontario" [with James B. Griffin] in *Lake Superior Copper and the Indians: Miscellaneous Studies of Great Lakes Prehistory* (edited by James B. Griffin) [Anthropological Papers, no. 17, Museum of Anthropology, University of Michigan], pp. 91-102

"The Pic River Site," in *Lake Superior Copper and the Indians: Miscellaneous Studies of Great Lakes Prehistory* (edited by James B. Griffin) [Anthropological Papers, no. 17, Museum of Anthropology, University of Michigan], pp. 83-89

"Various Finds of Copper and Stone Artifacts in the Lake Superior Basin" [with James B. Griffin], in *Lake Superior Copper and the Indians: Miscellaneous Studies of Great Lakes Prehistory* (edited by James B. Griffin) [Anthropological Papers, no. 17, Museum of Anthropology, University of Michigan], pp. 103-117

Review of *Ethnographic Bibliography of North America* (by George Peter Murdock), in *American Antiquity*, vol. 27, no. 1, p. 119

RINALDO, JOHN B.

Review of *Black Sand, Prehistory in Northern Arizona* (by Harold S. Colton), in *American Antiquity*, vol. 27, no. 2, pp. 256-257

OTHER PUBLICATIONS OF STAFF MEMBERS IN 1961

DEPARTMENT OF BOTANY

GIBSON, DOROTHY

"Life-forms of Kentucky Flowering Plants," *The American Midland Naturalist*, vol. 66, no. 1, pp. 1-60

THIERET, JOHN W.

"A Collection of Plants from the Horn Plateau, District of MacKenzie, Northwest Territories," *The Canadian Field-Naturalist*, vol. 75, no. 2, pp. 77-83

"New Plant Records for Southwestern District of MacKenzie," *The Canadian Field-Naturalist*, vol. 75, no. 3, pp. 111-121

"The Scrophulariaceae-Buchnereae of Central America," *Ceiba*, vol. 8, no. 2, pp. 92-101

Review of *Decorative Trees and Shrubs* (by Hans Zaugg and Hans Coaz), in *Economic Botany*, vol. 15, no. 1, pp. 111-112

Review of *Die Acker-und Grünlandleguminosen im Blütenlosen Zustand* (by Adolf Stählin), in *Economic Botany*, vol. 14, no. 4, pp. 333-334

Review of *Pasture and Range Plants* (anonymous), in *Economic Botany*, vol. 15, no. 2, p. 194

Review of *Vorläufiges Verzeichnis Landwirtschaftlich oder Gärtnerisch Kultivierter Pflanzenarten* (by Rudolph Mansfield), in *Economic Botany*, vol. 15, no. 2, pp. 202-203

Review of *Weeds* (by J. N. Whittet), in *Economic Botany*, vol. 15, no. 2, pp. 182-183

WILLIAMS, LOUIS O.

"*Aquilegia jonesii*, Rare Miniature Columbine," *American Horticultural Magazine*, vol. 40, no. 2, pp. 229-230

"De China," *Economic Botany*, vol. 15, no. 1, p. 112

"Guar, un cultivo para America Central," *Extension en las Americas*, vol. 6, no. 1, pp. 17-19

Review of *Some Fruits and Nuts for the Tropics* (by William C. Kennard and Harold F. Winters), in *Economic Botany*, vol. 15, no. 1, pp. 109-110

DEPARTMENT OF GEOLOGY

DENISON, ROBERT H.

"Feeding Mechanisms of Agnatha and Early Gnathostomes," *American Zoologist*, vol. 1, no. 2, pp. 177-181, 4 illustrations

OLSEN, EDWARD J.

"High Temperature Acid Rocks Associated with Serpentinities in Eastern Quebec," *The American Journal of Science*, vol. 259, pp. 329-347

"Six-Layer Ortho-hexagonal Serpentine from the Labrador Trough," *American Mineralogist*, vol. 46, pp. 434-438

ROY, SHARAT K.

"A New Phosphate Mineral from the Springwater Pallasite," *Geochimica et Cosmochimica Acta*, vol. 24, pp. 198-205 [with E. R. Du Fresne]

DEPARTMENT OF ZOOLOGY

BLAKE, EMMET R.

"Basic Science Dictionary (Birds Only)," in *Basic Science Handbook K3* [Scott, Foresman and Co., Chicago], pp. 211-335

OTHER PUBLICATIONS OF STAFF MEMBERS IN 1961

BLAKE, EMMET R. (CONTINUED)

"New Bird Records from Surinam," *Ardea*, vol. 49, pp. 178-183

"Ornithological Reconnaissance of Department Madre de Dios, Peru: A Preliminary Report," *Revista Universitaria* (Cuzco), vol. 49, no. 118, pp. 131-144, 1 map, 2 illustrations

GREY, MARION

"Fishes Killed by the 1950 Eruption of Mauna Loa, Part V: Gonostomatidae," *Pacific Science*, vol. 15, no. 3, pp. 462-476, 5 illustrations

INGER, ROBERT F.

"Problems in the Application of the Subspecies Concept in Vertebrate Taxonomy," in *Vertebrate Speciation* [University of Texas Symposium, 1961], pp. 262-285

The Bornean Cyprinoid Fishes of the Genus *Gastromyzon* Günther," *Copeia*, 1961, pp. 166-176 [with P. K. Chin]

"The Food of Amphibians," *Exploration du Parc National Albert and l'Upemba*, 1961, Fasc. 64, pp. 1-76 [with Hymen Marx]

NELSON, EDWARD M.

"The Comparative Morphology of the Definitive Swim Bladder in the Catostomidae," *The American Midland Naturalist*, vol. 65, no. 1, pp. 101-110

RAND, AUSTIN L.

A Midwestern Almanac, 176 pages [Ronald Press] (with R. M. Rand)

"Some Size Gradients in North American Birds," in *The Wilson Bulletin*, vol. 73, no. 1, pp. 46-56

"Wing Length as an Indicator of Weight: A Contribution," in *Bird Banding*, vol. 32, no. 2, pp. 71-79

ROSCOE, ERNEST J.

"John Wesley Powell—Pioneer Illinois Malacologist," in *American Malacological Union Annual Report*, 1961, p. 2 "The Molluscan Fauna of Pluvial Lake Bonneville" (Abstract), in *American Malacological Union Annual Report*, 1961, p. 25

"Preliminary Checklist of Lake Bonneville Mollusca," in *Sterkiana*, 1961, no. 4, pp. 23-28

SOLEM, ALAN

"Censusing Mollusks, or Variations on the Numbers Game," in *American Malacological Union Annual Report*, 1961, pp. 16-17

TRAYLOR, MELVIN A., JR.

"A New Race of *Parus funereus* (Verreaux)," in *Bulletin of the British Ornithologists' Club*, vol. 81, p. 3

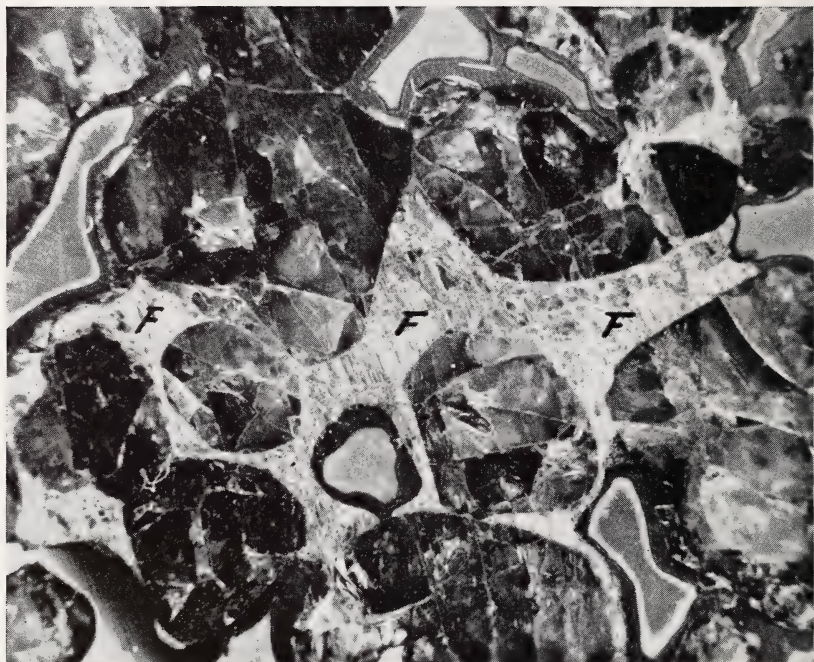
"Two New Birds from Angola," in *Bulletin of the British Ornithologists' Club*, vol. 81, pp. 43-45

"Ticks (Ixodoidea) on Birds Migrating from Africa to Europe and Asia," in *Bulletin World Health Organization*, vol. 24, pp. 197-212 [with others]

WOODS, LOREN P.

"*Chaetodon goniodes*, A New Butterfly Fish from Puerto Rico," in *Bulletin of Marine Science of the Gulf and Caribbean*, vol. 10, no. 4, pp. 417-420

"A New Species of Flatfish, *Monolene megalepis* from Puerto Rico and the Western Caribbean Sea," *Copeia*, 1961, no. 2, pp. 192-195, 1 illustration



POLISHED SECTION OF
SPRINGWATER METEORITE
SHOWING NEW MINERAL
FARRINGTONITE (F)

CAFETERIA AND LUNCHROOM

Total attendance and total receipts from the food services of the Museum closely approximated the figures of the preceding year. More than 257,000 persons used the cafeteria and lunchroom, and gross receipts amounted to \$213,690. It was necessary for the Museum to make additional provision for school children who brought their lunches as the popularity of "a day at the Museum" continues to grow among schools of Chicago and the entire Middle West. It was not always possible, however, to make provision for all children who wished to use Museum facilities at lunchtime, and it is hoped that, as school groups become increasingly aware of the problem, scheduling of facilities at other than peakload hours will be increased.

MAINTENANCE, CONSTRUCTION, AND ENGINEERING

Closing exterior windows in Hall 28 (Botany) was completed, together with extensive interior construction that will fit this hall for the reinstallation of exhibits in economic botany. Reinstallation of the collections in Hall 31 (Gems and Jewels) was completed, work that involved cleaning and painting the exhibit cases as well as rewiring and fitting many of them with new slimlined lamps. Remodeling Hall F (Anthropology) was completed, including rewiring and installation of lights appropriate to the new design of the hall.

In connection with the planned reinstallation of the Chinese and Tibetan collections in Hall 32 (Anthropology) construction was begun on a new storeroom for collections removed from exhibition and those now stored in another area. Many improvements to facilitate the storage of research collections and easy access thereto were completed. The Divisions of Maintenance and Engineering assisted in cleaning and repainting the interiors of exhibit cases in Hall 24 (Anthropology) and made repairs as needed in the exhibits of the walrus and elephant-seal groups in Hall N (Zoology).

Care of the exterior of the building included installation of eight iron roof-ladders that were necessary for easier access to various levels of the roof by the maintenance force. The floodlights were entirely relamped and fixtures cleaned. The third-floor façade at both the east and west of the building was tuckpointed, and new gutters were installed to serve certain areas of the main skylight. Personnel of the Chicago Park District made essential repairs to

the Museum's service drive and resurfaced the terrace at the west of the building.

In the boiler room the necessary annual cleaning was done during the summer months, and heat lamps were installed in the boilers to keep them dry and thus prevent corrosion. The front arches in boilers one and two were repaired, and a large section of breeching lining was replaced (it was necessary also to replace about nine feet of lining in stack). Stokers were inspected and repaired, and chemical pumps, motors, and accessory equipment were thoroughly renovated.

Air coolers were installed in the main skin-storage room on the fourth floor to prevent damage by heat in the summer months. Fire equipment received routine maintenance. Elevator maintenance, plumbing installation and maintenance, electrical work, and systematic cleaning and repainting were carried on as needed throughout the building during the year.

Under existing contracts 18,018,505 pounds of steam were furnished to the Chicago Park District and 12,549,000 pounds were furnished to the John G. Shedd Aquarium. For heating the Museum building 36,285,195 pounds of steam were generated.

MISCELLANEOUS

In the pages that follow are submitted the Museum's financial statements, attendance statistics, door receipts, accessions, list of Members, articles of incorporation, and amended by-laws.

CLIFFORD C. GREGG, *Director*
Chicago Natural History Museum

ATTENDANCE STATISTICS

FINANCIAL STATEMENTS

LIST OF ACCESSIONS



CHILDREN
TAKE NOTES
IN THE
EXHIBITION
HALLS

COMPARATIVE ATTENDANCE STATISTICS AND DOOR RECEIPTS

FOR YEARS 1961 AND 1960

| | 1961 | 1960 |
|--|-----------|---------------------|
| Total attendance..... | 1,307,567 | 1,244,374 |
| Paid attendance..... | 183,369 | 172,759 |
| Free admissions on pay days | | |
| Students..... | 58,497 | 55,670 |
| School children..... | 199,487 | 178,200 |
| Teachers..... | 12,684 | 11,670 |
| Members of the Museum..... | 1,121 | 954 |
| Service men and women..... | 1,070 | 1,159 |
| Special meetings and occasions..... | 13,421 | 10,412 |
| Press..... | 48 | 84 |
| Admissions on free days | | |
| Thursdays (52)..... | 154,509 | (52) 143,255 |
| Saturdays (52)..... | 323,664 | (53) 307,440 |
| Sundays (52)..... | 359,697 | (51) 362,771 |
| Highest attendance on any day | | |
| (July 23)..... | 14,812 | (December 3) 13,472 |
| Lowest attendance on any day | | |
| (December 23)..... | 364 | (February 15) 265 |
| Highest paid attendance (July 4)..... | 4,925 | (September 5) 3,757 |
| Average daily admissions (363 days)..... | 3,602 | (364 days) 3,418 |
| Average paid admissions (207 days)..... | 886 | (208 days) 831 |
| <hr/> | | |
| Number of picture postcards sold..... | 288,673 | 273,247 |
| Sales of Museum publications (scientific and popular), <i>General Guide</i> , and photographs; checkroom receipts..... | \$ 43,982 | \$ 41,788 |

CHICAGO NATURAL HISTORY MUSEUM

COMPARATIVE STATEMENT OF RECEIPTS AND EXPENDITURES—CURRENT FUNDS

FOR THE YEARS 1961 AND 1960

GENERAL OPERATING FUND

| RECEIPTS: | 1961 | 1960 |
|--|--------------------|--------------------|
| Endowment income— | | |
| From investments in securities | \$ 707,772 | \$ 393,085 |
| From investments in real estate* | 112,000 | 403,535 |
| | <u>\$ 819,772</u> | <u>\$ 796,620</u> |
| * the Pittsfield Building was sold during 1960 | | |
| Chicago Park District—tax collections | \$ 335,340 | \$ 344,455 |
| Annual and sustaining memberships | 30,830 | 30,220 |
| Admissions | 45,842 | 43,190 |
| Sundry receipts, including general purpose contributions | 99,898 | 87,624 |
| Restricted funds transferred to apply against Operating Fund expenditures | 118,370 | 124,301 |
| | <u>\$1,450,052</u> | <u>\$1,426,410</u> |
| EXPENDITURES: | | |
| Operating expenses— | | |
| Departmental | \$ 666,995 | \$ 661,832 |
| General | 507,556 | 492,345 |
| Building repairs and alterations | 107,834 | 98,914 |
| | <u>\$1,282,385</u> | <u>\$1,253,091</u> |
| Collections—purchases and expedition costs | \$ 70,961 | \$ 67,448 |
| Furniture, fixtures, and equipment | 17,558 | 6,395 |
| Pension and employees' benefits | 67,545 | 69,341 |
| Provision for mechanical plant depreciation | 22,486 | 10,000 |
| Nonrecurring expenditures— | | |
| Purchase and installation of boiler | | \$ 20,226 |
| | <u>\$1,460,935</u> | <u>\$1,426,501</u> |
| DEFICIT FOR YEAR | <u>\$ 10,883</u> | <u>\$ 91</u> |

AUDITOR'S CERTIFICATE APPEARS ON FOLLOWING PAGE

CONTINUED ON NEXT PAGE

CHICAGO NATURAL HISTORY MUSEUM
COMPARATIVE STATEMENT OF RECEIPTS
AND EXPENDITURES—CURRENT FUNDS

FOR THE YEARS 1961 AND 1960 (CONTINUED)

THE N. W. HARRIS PUBLIC SCHOOL
EXTENSION FUND

| | 1961 | 1960 |
|-----------------------------|------------------|-----------------|
| Income from endowments..... | \$ 36,298 | \$ 32,998 |
| Expenditures..... | 24,556 | 24,500 |
| SURPLUS FOR THE YEAR..... | <u>\$ 11,742</u> | <u>\$ 8,498</u> |

OTHER RESTRICTED FUNDS

| | | |
|--|-------------------|-------------------|
| RECEIPTS: | 1961 | 1960 |
| From Specific Endowment Fund investments.... | \$ 91,917 | \$ 79,181 |
| Contributions for specific purposes..... | 84,939 | 52,675 |
| Operating Fund appropriation for mechanical plant depreciation..... | 22,486 | 10,000 |
| Sundry receipts..... | 59,903 | 62,292 |
| | <u>\$ 259,245</u> | <u>\$ 204,148</u> |
| EXPENDITURES: | | |
| Transferred to Operating Fund to apply against expenditures..... | \$ 118,370 | \$ 124,301 |
| Added to Endowment Fund principal..... | 58,552 | 55,000 |
| Loss (gain) on sale of restricted fund securities.. | \$ 121 | (3,271) |
| | <u>\$ 177,043</u> | <u>\$ 176,030</u> |
| EXCESS OF RECEIPTS OVER EXPENDITURES..... | <u>\$ 82,202</u> | <u>\$ 28,118</u> |

THE TRUSTEES,
CHICAGO NATURAL HISTORY MUSEUM:

We have examined the accompanying comparative statement of receipts and expenditures—current funds of the Chicago Natural History Museum for the year ended December 31, 1961. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

In our opinion, the statement mentioned above presents fairly the receipts and expenditures of the current funds of the Chicago Natural History Museum for the year ended December 31, 1961, in conformity with generally accepted accounting principles applied on a basis consistent with that of the preceding year.

ARTHUR YOUNG & COMPANY

Chicago, Illinois
January 20, 1962

USE DURING 1961 OF SPECIAL FUNDS CONTRIBUTED IN FORMER YEARS

| | |
|---|-------------|
| ANTHROPOLOGY PURCHASE FUND..... | \$ 1,939.29 |
| EDWARD E. AYER LECTURE FOUNDATION | |
| Cost of Museum lecture series..... | 4,692.00 |
| Subsidy to publication program..... | 1,875.94 |
| FREDERICK AND ABBY KETTELLE BABCOCK FUND | |
| Subsidy to publication program..... | 2,342.94 |
| MRS. T. B. BLACKSTONE FUND | |
| Purchase of specimens..... | 1,417.75 |
| WILLIAM J. AND JOAN A. CHALMERS TRUST FUND | |
| Purchase of specimens..... | 163.00 |
| MRS. JOAN A. CHALMERS BEQUEST FUND | |
| Purchase of specimens..... | 341.09 |
| Field Trip..... | 500.00 |
| Laboratory equipment..... | 826.37 |
| CONOVER GAME-BIRD FUND | |
| Purchase of specimens..... | 701.00 |
| D. S. Rabor Field Trip..... | 3,500.00 |
| Harry A. Beatty Expedition..... | 35.00 |
| THOMAS J. DEE FELLOWSHIP FUND | |
| Fellowship grants to | |
| Mrs. Barbara Solem..... | 2,500.00 |
| Mrs. Maria Weiss..... | 360.00 |
| GROUP INSURANCE FUND* | |
| Group insurance costs..... | 7,103.73 |
| N. W. HARRIS PUBLIC SCHOOL EXTENSION FUND | |
| Preparation, care, and distribution of exhibits to schools of Chicago | 24,556.24 |
| THE JOHNSON FOUNDATION | |
| Research on waxy palms..... | 1,883.64 |
| LIBRARY FUND† | |
| Purchase of books and periodicals..... | 3,409.76 |
| NATIONAL SCIENCE FOUNDATION | |
| Research subsidies (12 projects)..... | 45,061.99 |
| JAMES NELSON AND ANNA LOUISE RAYMOND PUBLIC SCHOOL AND CHILDREN'S LECTURE FUND | |
| Subsidy to public school and children's lecture program..... | 39,960.36 |
| MAURICE L. RICHARDSON PALEONTOLOGICAL FUND | |
| Purchase of specimens..... | 180.00 |
| Field trip to Mecca, Indiana..... | 200.00 |
| Field trip to the Province of Quebec..... | 518.45 |
| KARL P. SCHMIDT FUND | |
| Study grants..... | 285.00 |
| ZOOLOGY PURCHASE FUND..... | 136.59 |

These funds have been used in accordance with the stipulations under which they were accepted by the Museum. In addition, the income from more than \$15,000,000 of unrestricted endowment funds was used in general Museum operation.

* Established by Stanley Field

† Established by Edward E. Ayer, Huntington W. Jackson, Arthur B. Jones, and Julius and Augusta N. Rosenwald

Contributions and Bequests

Contributions and bequests to Chicago Natural History Museum may be made in securities, money, books, or collections. They may, if desired, take the form of a memorial to a person or cause, to be named by the giver. For those desirous of making bequests to the Museum, the following form is suggested:

FORM OF BEQUEST

I do hereby give and bequeath to Chicago Natural History Museum of the City of Chicago, State of Illinois:

Cash contributions made within the taxable year to Chicago Natural History Museum to an amount not in excess of 20 per cent of the taxpayer's net income are allowable as deductions in computing net income for federal income tax

ACCESSIONS 1961

DEPARTMENT OF ANTHROPOLOGY

ART INSTITUTE OF CHICAGO, Chicago: carved wooden representation of a cock—Benin City, Nigeria (exchange)

BAHR, MISS EDNA H., Ridgefield, Connecticut: 3 jade pieces and a pottery tray—China (gift); 1 stone ax—South Pacific (gift); 1 stone ax—England (gift)

BASCOM, DR. WILLIAM R., Berkeley, California: ethnological material—Nigeria (gift)

BRINKERHOFF, MR. AND MRS. WAYNE, Snowflake, Arizona: 4 restorable pottery bowls—Arizona (gift)

BROBECK, MISS EMMA, Chicago: 24 ethnological specimens—China (gift)

BUDD-HANNA, MRS. RUTH, Fort Wayne, Indiana: ethnological specimens from Bantu tribes—Benoni, Union of South Africa (gift)

BUNTING, MRS. F. H., New Orleans and New York: 3 rubbings and a booklet, *Thatta*—Thatta, Sind, Pakistan (gift)

BUSTIN, DR. ANDREW G., Joliet, Illinois: Japanese urn—Japan (gift)

CARE, Chicago Office: amulet case of silver and brass—Tibet (gift)

CERVENKA, JOE, Chicago: Hellenistic earring of gold, *circa* 200 B.C.—Near East (gift)

CHICAGO NATURAL HISTORY MUSEUM: Collected by Dr. Paul S. Martin (Southwest Archaeological Expedition, 1961): 1,010 stone, bone, and shell artifacts, 116 pottery vessels (43 whole and 73 restorable), 8 fragments of basket, mat, and cloth, 30 human skeletons, charcoal samples for dating, and potsherds and pigment samples—Arizona

Collected by Dr. Donald Collier (Peru Archaeological Expedition, 1956): 22 whole and fragmentary pots, 2 stone artifacts, 30 lots of organic material for identification, 50 lots of sherds, 13 enlargements of aerial photographs—Casma Valley, Peru

Purchases. 46 ethnological specimens and 50 photographic negatives from Beni and Santa Cruz provinces, Bolivia; sculpture and wood and a net

bag from Melbourne, Australia; 7 pieces of prehistoric pottery from Peru: 266 ethnological specimens and 71 photographic negatives from Bolivia and Brazil; 9 bark paintings from New Guinea

Transfer: Javanese batik—from Department of Botany, Chicago Natural History Museum (see Annual Report 1912 [vol. 4, no. 3, 1913], page 232, Accessions, Department of Botany, "Collected by C. F. Millsbaugh")

DAHLBERG, DR. ALBERT A., Chicago: 13 human teeth with betel incrustation—Bangkok, Thailand (gift)

DALKOFF, LEONARD, Rock Island, Illinois: 3 prequest ornaments of gold-copper alloy—Colombia (gift)

FULLER, CAPTAIN, AND MRS. A. W. F., London: weapon (*hoeroa*)—New Zealand (gift)

GEARHART, MRS. CREED F., Evanston, Illinois: rubbing from Wat Po—Bangkok, Thailand (gift)

GREGORY, MRS. ALICE H., Chicago: shell necklace and silver bracelet, pendant, and brooch—southwestern United States (gift); woman's beaded costume (dress, leggings, moccasins, belt, headband), a beaded bandoleer, and 2 stone pipes—Montana (gift); 2 belts, 2 headbands, and a silver necklace—Guatemala (gift)

HOFFMAN, MISS MALVINA, New York: costume and accessory items used by models for Malvina Hoffman's sculptured figures in Hall 3—India, Ceylon, and Malay Peninsula (gift)

HOSELITZ, PROFESSOR BERT F., Chicago: 2 looms, 5 textiles, and 6 negatives showing looms in use—Tuxpan, Jalisco, Mexico (gift)

HOWE, CHARLES A., Homewood, Illinois: 41 Kodachrome slides on archaeological subjects—Mexico (gift)

KENNEDY, MISS BESS, Grafton, West Virginia: 2 Navaho rugs—Arizona or New Mexico (gift)

LACHMAN, HAROLD, Chicago: 2 lengths of cloth (1 from India and the other probably from India) (gift)

MUSEO NACIONAL DE PANAMA, Panama City, Panama: prehistoric pottery jar—Veraguas Province, Panama (gift)

MUSEUM OF NORTHERN ARIZONA, Flagstaff: Hopi top, rug, cookie jar, polychrome bowl, and silver necklace—Arizona (exchange)

NY CARLSBERG GLYPTOTEK, Copenhagen, Denmark: plaster cast of Egyptian statuette, complete except for head—Egypt (exchange)

PENDL, MRS. HENRY, Brookfield, Illinois: bowl—Philippine Islands (gift); textile—China (gift)

REED, EARL H., Chesterton, Indiana: tapa beater—Hawaii (gift)

SOLEM, MRS. GEORGE O., Oak Park, Illinois: Eskimo art-object made by young Eskimo about 1940—Alaska (gift)

TRIER, ROBERT, McKenzie Bridge, Oregon: 24 painted plaster reproductions of prehistoric figurines (fragments)—Canary Islands (gift)

WRIGHT, KENNETH M., Chicago: Chinese gown—Canton, China (gift)

DEPARTMENT OF BOTANY

ADAMS, PROFESSOR PRESTON, Greencastle, Indiana: 31 specimens of *Hypericum* (gift)

BENNETT, HOLLY REED, Chicago: 2,946 specimens of vascular plants (gift)

BLAKE, EMMET R., Evanston, Illinois: fruiting specimen of *Prunus tomentosa* (gift)

BOTANISCHER GARTEN UND MUSEUM, Berlin-Dahlem, Germany: 160 plant specimens of the Oberneder herbarium (exchange)

BRITISH MUSEUM (NATURAL HISTORY), London: 127 specimens of vascular plants (exchange)

BROOKE, MISS WINIFRED M. A., Liss, Hants, England: 26 specimens of vascular plants (gift)

CALIFORNIA, UNIVERSITY OF, Berkeley: 46 specimens of algae (exchange) and 180 specimens of vascular plants (gift)

CHICAGO NATURAL HISTORY MUSEUM: Collected by Dr. John W. Thieret and Robert J. Reich (Northwest Territories Botanical Expedition, 1961-62): 5,243 specimens of vascular plants—Canada

Collected by Dr. Patricio Ponce de León (field work, 1961, in conjunction with Armour Research Foundation): 31 specimens of cryptogams—Wisconsin

Purchases: one-half pound of carob seeds and 10 varieties of carob pods, 360 specimens of North Pakistan vascular plants, 80 specimens of South African vascular plants, 313 specimens of Belgian Congo plants, 331 specimens of Mexican vascular plants

COLORADO, UNIVERSITY OF, Boulder: 3 type-photographs of herbarium specimens (one of *Klugia* and two of *Rhynchoglossum*) and 51 specimens of cryptogams (exchange)

CONSERVATOIRE ET JARDIN BOTANIKES, Geneva, Switzerland: 4,656 specimens of vascular plants from tropical America (exchange)

CONTINENTAL COFFEE COMPANY, Chicago: 12 samples of coffees (gift)

COSBY, DR. HUGH E., Minot, North Dakota: specimen of *Cladonia tenuis* (gift)

DUKE UNIVERSITY, Durham, North Carolina: 48 specimens of mosses (exchange)

DURKEE FAMOUS FOODS, Chicago: 4 samples of spices (gift)

DYBAS, HENRY S., Homewood, Illinois: 179 specimens of fungi (gift)

GIBSON, MRS. DOROTHY, Oak Park, Illinois: 115 specimens of vascular plants and 1 vial of seeds (gift)

GOVERNMENT SAWMILL DIVISION, Port Blair, Adaman Islands: 22 specimens of woods (exchange)

GRAY HERBARIUM, HARVARD UNIVERSITY, Cambridge, Massachusetts: 127 specimens of vascular plants and 113 photographs of specimens (exchange)

GREGG, DR. CLIFFORD C., Valparaiso, Indiana: 33 specimens of vascular plants and 1 specimen of lichen (gift)

INSTITUTO AGRONÔMICO DO SUL, Pelotas, Rio Grande do Sul, Brazil: 440 specimens of vascular plants (exchange)

INSTITUTO BOTÁNICO, Caracas, Venezuela: 3 type specimens of vascular plants (1 as gift and 2 in exchange)

INSTITUTO BOTANICO, Florence, Italy: 190 specimens of vascular plants (exchange)

INSTITUTO NACIONAL DE PESQUISAS DA AMAZÔNIA, Manaus, Amazonas, Brazil: 226 specimens of vascular plants (exchange)

LAUGHLIN, KENDALL, Chicago: specimens of *Quercus* (gift)

LAWRANCE, ALEX E., Natal, British Columbia, Canada: 25 specimens of vascular plants (gift)

LUNDELL, DR. CYRUS L., Renner, Texas: specimen of *Bartholomaea* (gift)

MARIN M., DR. FELIPE, Cuzco, Peru: 409 specimens of vascular plants (exchange)

MARTÍNEZ, DR. MAXIMINO, Mexico D.F., Mexico: isotype specimen of *Peltogyne mexicana* Martínez, with wood sample and descriptive publication (gift)

MATUDA, PROFESSOR EIZI, Mexico D.F., Mexico: 86 specimens of Orchidaceae (gift)

MICHIGAN, UNIVERSITY OF, Ann Arbor: 841 specimens of vascular plants (exchange)

MORTON, MRS. JULIA F., Coral Gables, Florida: 3 sample collections of plant by-products and raw materials (gift)

MORTON ARBORETUM, Lisle, Illinois: 50 specimens of vascular plants and 846 prints of woody plants (gift)

NATIONAL FEDERATION OF COFFEE GROWERS OF COLOMBIA, New York: 2 samples of coffees (gift)

NATURHISTORISKA RIKSMUSEET, Stockholm, Sweden: 145 specimens of vascular plants (exchange)

NESTLÉ COMPANY, INC., Fulton, New York: 13 samples of plant products and raw materials (gift)

NOTTINGHAM, UNIVERSITY OF, Sutton Bonington, Loughborough, England: 5 specimens of *Cephaelis ipecacuanha* (gift)

PALSER, DR. BARBARA, Chicago: 3 specimens of Ericaceae, with Kodachrome print of each specimen (gift)

PAN AMERICAN PETROLEUM CORPORATION, Tulsa, Oklahoma: 642 slides of various pollens (exchange)

PEABODY FOUNDATION, THE R. S. (Archaeological-Botanical Tehuacán Project), Amherst, Massachusetts: 2,837 specimens of vascular plants (exchange, in return for services of Dr. C. Earle Smith, Jr., as botanical consultant)

PIATTONI, CELSO, Chicago: sample bag of capers for spice exhibit (gift)

RINALDO, DR. JOHN B., Elmhurst, Illinois: 50 specimens of vascular plants (gift)

ROYAL BOTANIC GARDENS, Kew, Surrey, England: 107 specimens of vascular plants and one type-photograph (exchange)

SCHULTES, DR. RICHARD E., Cambridge, Massachusetts: type-specimen of *Saurauia Alvaroi* R. E. Schultes (gift)

SHERFF, DR. EARL E., Hastings, Michigan: 292 specimens of vascular plants (gift)

TRAVERSE, DR. ALFRED, Houston, Texas: 155 specimens of vascular plants (exchange)

UNITED STATES DEPARTMENT OF AGRICULTURE, Belle Glade, Florida: 5 packets of seeds and fibers of various fiber-producing plants (gift)

UNITED STATES NATIONAL MUSEUM, Washington, D.C.: 8 vascular plants (gift)

VOLLBRECHT, JOHN L., Lake Bluff, Illinois: 6 specimens of fungi and 2 samples of "luminiscent" wood (gift)

VOTH, DR. PAUL D., Chicago: 2 cultures of red yeast (gift)

WARD, DR. DANIEL B., Gainesville, Florida: 23 specimens of vascular plants (gift)

WILLIAMS, DR. LOUIS O., Park Forest, Illinois: 106 specimens of vascular plants and 1 negative of type-photograph of *Meliosma longipedunculata* Standl. & L. O. Wms. ex Brizicky (gift)

YUNCKER, DR. T. G., Greencastle, Indiana: specimen of *Mikania* (gift)

DEPARTMENT OF GEOLOGY

AHNEN, RICHARD, Chicago: fossil clam—Utah (gift)

APPLEGATE, DR. SHELTON P., State College, Arkansas: fossil invertebrates, vertebrates, and plants—various localities (gift)

ARMISTEAD, ROBERT, Cicero, Illinois: fossil mammal rib-bone—Florida (gift)

BARSTOW, WILLIS, Palisade, Colorado: fossil turtle—Colorado (gift)

BUDD-HANNA, MRS. RUTH, Fort Wayne, Indiana: gold ore—South Africa (gift)

CHALMERS CRYSTAL FUND, WILLIAM J.: minerals—various localities (purchase)

CHICAGO, UNIVERSITY OF, Chicago: fossil reptiles—Oklahoma (gift)

CHICAGO NATURAL HISTORY MUSEUM: Collected by Dr. Robert H. Denison (Quebec Paleontological Field Trip, 1961): numerous fossil fishes—Canada

Collected by William D. Turnbull (during Society of Vertebrate Paleontology Field Conference, 1961): fossil mammals—Nebraska

Collected by Bertram G. Woodland (Vermont Geological Field Trip, 1961): numerous minerals—Vermont and southern Quebec

Collected by Dr. Rainer Zangerl, Dr. Eugene S. Richardson, Jr., and Mr. Woodland (field work, 1961): fossil invertebrates, fishes, and minerals—Indiana

CONN, MRS. H. K., Quebec, Canada: minerals—Canada (gift)

COPE, PROFESSOR JAMES B., Richmond, Indiana: hyoid apparatus cast of a fossil mammal—Indiana (gift)

COPENHAGEN UNIVERSITY, MINERALOGICAL AND GEOLOGICAL MUSEUM, Copenhagen, Denmark: minerals—Greenland (exchange)

DARTMOUTH COLLEGE MUSEUM, Hanover, New Hampshire: cast of fossil fish—Escuminac Bay, Canada (exchange)

DAVIS, ROBERT C., Chicago: minerals—California (gift)

DURAND, PAUL, Los Angeles: minerals—Brazil (gift)

ERLING, DANIEL, Milwaukee, Wisconsin: minerals—various localities (gift)

HANNEN, MISS GERTRUDE, Chicago: fossil snails—Illinois (gift)

HESS, DR. HANS, Binningen, Basel, Switzerland: fossil invertebrates—various localities (gift)

HILL, CHRIS, Glen Ellyn, Illinois: slab with fossil invertebrates—Illinois (gift)

HISER, WILLIAM, Ann Arbor, Michigan: fossil invertebrates—Michigan (gift)

HOFSTETTER, OSCAR B., Nashville, Tennessee: fossil crab—Tennessee (exchange)

JOHNSON, JACK, Carrollton, Texas: fossil fish—Texas (gift)

KELLY, WILLIAM D., Clarendon Hills, Illinois: fossil fishes, invertebrates, and minerals—various localities (gift)

KJELLESVIG-WAERING, ERIK N., Port of Spain, Trinidad, British West Indies: fossil invertebrate—Bolivia (gift)

KNECHT, MRS. OTTO H., Evanston, Illinois: fossil invertebrates—Florida (gift)

LANGSTON, DR. WANN, Ottawa, Ontario, Canada: cast of fossil fish (exchange)

LOOK, AL, ELMER MOYER, AND SUE HILL, Grand Junction and Rifle, Colorado: fossil mammal material and cast of mammal specimen—Colorado (gift)

MUSEO CIVICO DI STORIA NATURALE DI MILANO, Milan, Italy: fossil fishes and fossil plants—Italy (exchange)

NEAL, QUINTIN, Chicago: fossil coral—Wisconsin (gift)

NILES, HAROLD F., River Forest, Illinois: petrified wood—Arizona (gift)

PAN AMERICAN PETROLEUM CORPORATION, Calgary, Alberta, Canada: fossil invertebrate in well-core—Canada (gift)

PRINCETON UNIVERSITY, Princeton, New Jersey: cast of forelimb of fossil mammal (exchange)

QUINN, JAMES H., Fayetteville, Arkansas: fossil invertebrates—various localities (exchange)

RICHARDSON PALEONTOLOGICAL FUND, MAURICE L., fossil fishes—Kansas (purchase)

SCHMID, RUDOLF V., Lake Bluff, Illinois: fossil invertebrate—Illinois (gift)

SCHWARTZ, DR. HENRY, Chicago: minerals—Vermont (gift)

SEIFERT, MARTIN, Carrollton, Texas: fossil fishes—Texas (gift)

SIMPSON, WILLIAM, Wheeling, Illinois: mineral—Illinois (gift)

SOUTHERN ILLINOIS UNIVERSITY, Carbondale: fossil invertebrates—Illinois (gift)

TULLY, FRANCIS, Chicago: fossil invertebrates—Illinois (gift)

UNITED STATES NATIONAL MUSEUM, Washington, D.C.: minerals—various localities (exchange)

UNIVERSIDADE DO RIO GRANDE DO SUL, ESCOLA DE GEOLOGIA, Porto Alegre, Rio Grande do Sul, Brazil: minerals—various localities (exchange)

WARD, MRS. CYRIL L., Evanston, Illinois: opals—various localities (gift)

WOLLIN, JAY, Morton Grove, Illinois: fossil invertebrates—Oklahoma (gift)

WOODLAND, BERTRAM G., Homewood, Illinois: minerals—Copenhagen (gift)

WRIGGLESWORTH, LORNE, Northwest Territories, Canada: gold ore—Canada (gift)

DEPARTMENT OF ZOOLOGY

ACADEMIA R.P.R., INSTITUTUL DE BIOLOGIE, Bucharest, Rumania: 646 fishes—Rumania (gift)

ACADEMY OF SCIENCES, ZOOLOGICAL INSTITUTE, Leningrad, U.S.S.R.: 19 mammals—U.S.S.R. (exchange)

ALLCHIN, MRS. RUTH, West Malvern, England: 3 landsnails—Southern Rhodesia (gift)

AMERICAN MUSEUM OF NATURAL HISTORY, New York: 1 frog—New Guinea (exchange); 8 landsnails—Indonesia (exchange); 15 landsnails—Egypt (gift)

ANONYMOUS: 2 birds—Chicago (gift)

ARNEMANN, GEORGE F., Honolulu: collection of tree snails—Hawaii (gift)

BAKER, EMMETT B., Kingston, Massachusetts: approximately 96 marine and nonmarine mollusks—Massachusetts (exchange)

BARR, DR. THOMAS C., JR., Cookeville, Tennessee: 4 cave beetles—Texas (exchange)

BECKX, V., Amanzimototi, Natal, South Africa: bird—South Africa (gift)

BERGERON, EUGENE S., Balboa, Canal Zone: 66 mollusks—Panama (gift)

BLAKE, EMMET R., Evanston, Illinois: bird—Illinois (gift)

BONETTO, DR. ARGENTINO A., Santa Fe, Argentina: six lots of landsnails—Argentina (gift); 62 freshwater mussels—South America (gift)

BORGMEIER, FATHER THOMAS, O.F.M., Jacarepaguá, Brazil: 16 beetles—Central and South America (gift)

BREELAND, DR. SAMUEL G., Wilson Dam, Alabama: approximately 165 freshwater shells—Eastern North America (gift)

BRIGHAM YOUNG UNIVERSITY, Provo, Utah: 500 ants—Nevada (permanent loan)

BRITISH MUSEUM (NATURAL HISTORY), London: frog—Chile (exchange); 44 nonmarine mollusks—New Hebrides (exchange)

BUETTNER-JANUSCH, DR. JOHN, New Haven, Connecticut: 2 mammals—Kenya (gift)

CARNEGIE MUSEUM, Pittsburgh: 2 birds—Brazil and French Guiana (exchange)

CHACE, EMERY P., San Diego: 8 landsnails—Santa Barbara Islands and Lower California (gift)

CHICAGO NATURAL HISTORY MUSEUM:

Collected by Harry A. Beatty (Guiana Zoological Expedition, 1960–61): 220 mammals, 838 birds, 251 amphibians and reptiles, 151 fishes, 12 inland mollusks—Surinam

Collected by Dr. Robert F. Inger (Florida Zoological Field Trip, 1961): 128 amphibians and reptiles—Florida

Collected by D. S. Rabor (Philippine zoological field work, 1920): 219 birds—Philippine Islands

Collected by Dr. Alan Solem and Munroe L. Walton (Arizona Zoological Field Trip, 1961): approximately 950 landshells—Arizona

Collected by Dr. John W. Thieret (Northern Great Plains Botanical Field Trip, 1959): 7 frogs—Canada

Collected by Loren P. Woods and others (Hawaii Field Trip, 1961, sponsored by John G. Shedd Aquarium): 1,444 fishes—Hawaii

Purchases: 337 mammals, 2,998 birds and 1 egg, 2,698 amphibians and reptiles, 327 fishes, 21,897 insects, 65,283 specimens and 40 lots of lower invertebrates

CHICAGO PARK DISTRICT, Chicago: bird—Chicago (gift)

CHICAGO ZOOLOGICAL SOCIETY, Brookfield, Illinois: 14 mammals, 2 birds, 22 amphibians and reptiles—worldwide (gift)

CHIN, PHUI-KONG, Jesselton, North Borneo: 92 amphibians and reptiles (exchange); 95 amphibians and reptiles (gift)

CHURCH, DR. GILBERT, San Francisco: 238 amphibians and reptiles—Amboina, Borneo, and Java (gift)

COMPANHIA DE DIAMANTES DE ANGOLA, Dundo, Lunda, Angola: 3 mammals—Angola (gift)

DE BOE, MRS. MICHAEL PRICE, Coral Gables, Florida: 4 shells—Florida (gift)

DELESKE, DONALD, Chicago: bird—Idaho (gift)

DELFINADO, MISS MERCEDES D., Manila: 3 slides of mites—Philippine Islands (gift)

DE MAEYER, FRANCIS, Chicago: 3 birds—Mexico (gift)

DEMAREE, DELZIE, Hot Springs, Arkansas: 57 freshwater clams—Arkansas (gift)

DEVAMBEZ, DR. L., Noumea, New Caledonia: approximately 110 freshwater mollusks—Fiji Islands (gift)

DLUHY, EUGENE, Chicago: 4 butterflies—Formosa (gift)

DUARTE, ELISEO, Montevideo, Uruguay: approximately 85 shells—southern South America (exchange)

- DYBAS, HENRY S., Homewood, Illinois: 16 amphibians and reptiles—Palau (gift); 3 salamanders—Indiana (gift); 736 insects—Michigan (gift)
- EARLHAM COLLEGE, JOSEPH MOORE MUSEUM, Richmond, Indiana: bird—British Guiana (gift)
- EIGSTI, W. E., Hastings, Nebraska: butterfly—Nebraska (gift)
- EMERSON, DR. ALFRED E., Chicago: lizard—India (gift)
- EVANS, DAVID H., Hinsdale, Illinois: 129 fishes—England (gift)
- EVENSON, MISS JOANNE L., Chicago: 13 mollusks—Wisconsin (gift)
- EYERDAM, WALTER J., Seattle: approximately 500 marine snails—western North America (gift)
- FECHTNER, FREDERICK R., Rockford, Illinois: 29 sets of freshwater mussels—Illinois and Tennessee (gift)
- FERNANDO, E. G., Dehiwala, Ceylon: 26 insects—Ceylon (gift)
- FOBES, EDWARD, Omaha: 4 marine snails—Indo-Pacific (exchange)
- FREDERICK, MRS. C. L., Chicago: 65 marine shells—Ascension Island (gift)
- FULTON, DR. MACDONALD, Chicago: 262 frogs and lizards—Puerto Rico (gift)
- GALLOWAY, JOHN, Chicago: marmoset—locality unknown (gift)
- GANS, DR. CARL, Buffalo: mammal—locality unknown (gift)
- GENERAL BIOLOGICAL SUPPLY HOUSE, Chicago: 3 mammals—locality unknown (gift)
- GREENBERG, MRS. HOWARD, Lincolnwood, Illinois: bird—Illinois (gift)
- GREGG, DR. CLIFFORD C., Valparaiso, Indiana: 2 birds—Indiana (gift); land-snail—Austria (gift)
- HAILE, DR. NEVILLE S., Jesselton, North Borneo: 14 frogs—North Borneo (exchange)
- HERRINGTON, REV. H. B., Westbrook, Ontario, Canada: approximately 1,500 nonmarine mollusks—Eastern Canada (gift)
- HOLSTEIN, HERMAN, Oak Park, Illinois: dog—domesticated (gift)
- HOOGSTRAAL, DR. HARRY, Cairo, Egypt: 343 mammals, 249 birds, 36 amphibians and reptiles, 65 snails, 53 insects—Egypt and Sudan (gift); 2 mammals—India (gift); 1 snake—Montana (gift)
- HOWDEN, DR. HENRY, Ottawa, Ontario, Canada: 10 beetles—Canada and United States (gift)
- HOY, GUNNAR, Salta, Argentina: 2 birds—Argentina (gift)
- ILLINOIS, UNIVERSITY OF, Urbana: 13 landsnails—West Indies (exchange)
- ILLINOIS STATE NORMAL UNIVERSITY, Normal: 46 fishes—various localities (exchange)
- INAHARA, NOBUO, Osaka, Japan: 57 beetles—Japan (exchange)
- KISTNER, DR. DAVID, Chico, California: 116 insects—Mexico, Peru, and United States (gift)
- KOOPMAN, DR. KARL F., New York: mammal—Guadeloupe (gift)
- KRAUSS, DR. N. L. H., Honolulu: 2 lizards—Tuamotu (gift)
- KUNTZ, DR. ROBERT E., care of APO, San Francisco: 669 amphibians and reptiles—Formosa (exchange); 101 amphibians and reptiles—Pescadores (gift)
- LAMBERT, ROLAND J., Zion, Illinois: snake skin—Illinois (gift)
- LANGGUTH, ALFREDO, Montevideo, Uruguay: mammal—Uruguay (gift)
- LANSBURY, I., Oxford, England: 4 insects—Netherlands New Guinea (exchange)
- LAYNE, DR. JAMES N., Gainesville, Florida: 2 insects—Florida (gift)
- LEHMANN, DR. WILMA H., Chicago: 9 mammals—locality unknown (gift)
- LENNOX, JAMES W., Plano, Illinois: 33 landsnails—Illinois (gift)
- LEVELL, JOHN P., Chicago: mammal—France (gift)
- LINCOLN PARK ZOOLOGICAL SOCIETY, Chicago: 2 mammals, 2 birds, 3 amphibians and reptiles—various localities (gift)
- LOCKWOOD, DUNBAR, Cambridge, Massachusetts: mammal—U.S.S.R. (gift)
- LONG, LEWIS E., Harrison, Arkansas: 310 insects—Afghanistan (gift)
- MACHADO-ALLISON, LIC. CARLOS E., São Paulo, Brazil: 10 beetles—Brazil (exchange)
- MALAYA, UNIVERSITY OF, Kuala Lumpur, Malaya: 419 fishes—Malaya (gift)
- MALKIN, BORYS, Chicago: 93 fishes—Bolivia (gift)
- MAURER, MISS M. DIANNE, Palatine, Illinois: bird—Illinois (gift)
- MC ALLISTER, MRS. JESSIE R., Gary, Indiana: collection of sea shells—Florida (gift)

MCDANIEL, BURRUSS, JR., College Station, Texas: 2 mites—Mexico (gift)

McMICHAEL, DR. D. F., Sydney, Australia: 18 landsnails—West Australia (gift)

MEIER, CLAUS, Falkau, Germany: 37 sets of freshwater mollusks—Central Europe (exchange); 265 nonmarine mollusks—Western Europe (exchange)

MENZIES, DR. J. I., Bo, Sierra Leone: 33 amphibians and reptiles—Sierra Leone (gift)

MERUBIA, HENRY, Evanston, Illinois: 234 insects—Bolivia (gift)

METTER, DEAN E., Moscow, Utah: 14 frog larvae—Washington (gift)

MIAMI, UNIVERSITY OF, Coral Gables, Florida: 6 fishes—Bahamas (gift)

MINTON, DR. SHERMAN, JR., care of APO New York: 12 lizards, 6 snakes—Pakistan (gift)

MUSEO ARGENTINO DE CIENCIAS NATURALES, Buenos Aires, Argentina: 4 mammals—Argentina (exchange)

MUSEO CIVICO DE STORIA NATURALE, Genoa, Italy: 70 nonmarine mollusks—Indonesia and New Guinea (exchange)

MUSEO DE HISTORIA NATURAL DE MONTEVIDEO, Montevideo, Uruguay: 3 lizards—Uruguay (exchange)

MUSEUM AND ART GALLERY, Durban, Union of South Africa: 4 birds—Africa (exchange); 7 birds—Africa (gift)

MUSEUM OF COMPARATIVE ZOOLOGY, Cambridge, Massachusetts: salamander—Tennessee (exchange); frog—Thailand (exchange)

MUSEU RIOGRANDENSE DE CIENCIAS NATURAIS, Rio Grande do Sul, Brazil: 8 amphibians and reptiles—Brazil (exchange)

NATIONAL MUSEUMS OF SOUTHERN RHODESIA, Bulawayo, Southern Rhodesia: 2 birds—Southern Rhodesia (gift); 12 amphibians and reptiles—Southern Rhodesia (exchange)

NATURHISTORISCHES MUSEUM, Vienna, Austria: 2 frogs—Sumatra (exchange)

NELSON, DR. EDWARD M., San Juan, Puerto Rico: collection of various invertebrate animals—Puerto Rico (gift)

NEWBILL, THOMAS J., Ft. Lauderdale, Florida: 4 birds—Florida, Colombia, and Ecuador (gift)

NOEL, EMIL, Chicago: 4 sea urchins—Florida (gift)

ORIENTAL INSTITUTE, University of Chicago, Chicago: 41 mammals, 10 birds—Iran (gift)

PASTEUR, DR. GEORGES, Rabat, Morocco: 8 amphibians and reptiles—Algeria, Madagascar, and Morocco (exchange)

PINE, RONALD H., Lawrence, Kansas: 57 mammals—western United States (gift)

POYNTON, DR. J. C., Pietermaritzburg, Natal: 48 frogs—Africa (exchange)

PRICE, L., Kaitaia, New Zealand: 60 sets of nonmarine mollusks—Australia and New Zealand (exchange)

PRICE, DR. MANNING D., College Station, Texas: 19 insects—Guatemala and Mexico (exchange)

QUIMBY, GEORGE I., Chicago: 67 shells—Lake Michigan (gift)

RAFFLES MUSEUM, Singapore: frog—North Borneo (exchange)

RANDALL, DR. JOHN E., St. John, Virgin Islands: 4 fishes—Virgin Islands (gift)

REED, DR. CHARLES A., New Haven, Connecticut: 40 landsnails, plaster casts of deer—Iran (gift)

RETTENMEYER, CARL, Manhattan, Kansas: 4 beetles—Nigeria (gift)

RIEDEL, DR. A., Warsaw, Poland: 36 nonmarine mollusks—Peru, Poland, and Siberia (exchange)

RIJKSMUSEUM VAN NATUURLIJKE HISTOIRE, Leiden, Netherlands: frog—Sumatra (exchange)

ROCKY MOUNTAIN LABORATORY, Hamilton, Montana: 22 chigger mites—Panama and Peru (gift)

ROSCOE, ERNEST J., Chicago: 226 lots of land and freshwater mollusks—western United States (gift)

SABINE, TED, Zion, Illinois: 726 insects and related arthropods—Central and South America (gift)

SARAWAK MUSEUM, Kuching: 3 frogs, 5 tadpoles—Sarawak (exchange)

SCHERPELTZ, DR. OTTO, Vienna, Austria: 12 insects—Europe (gift)

SILVA-TABOADA, GILBERTO, Havana, Cuba: 31 mammals—Cuba (exchange); 2 mammals—Cuba (gift)

SUMMERS, RAY, Petaluma, California: marine snail—Philippine Islands (gift)

SWEGLES, KYLE V., Chicago: 88 lizards—Caribbean Sea (gift)

TALMADGE, ROBERT, Willow Creek, California: 77 mollusks—western America (exchange); 149 shells—California and Lower California (exchange)

TESKEY, MRS. MARGARET, Marinette, Wisconsin: approximately 14,000 non-marine mollusks—world-wide (gift)

TINKLE, DR. DONALD W., Lubbock, Texas: 2 snakes—Texas (gift)

UNDERWOOD, GARTH, Saint Augustine, Trinidad, British West Indies: mammal—Jamaica (gift)

UNITED STATES FISH AND WILDLIFE SERVICE, Cold Bay, Alaska: 5 birds—Amchitka, Aleutian Islands (gift); Pascagoula, Mississippi: 430 fishes—Gulf of Mexico (gift)

UNITED STATES NATIONAL MUSEUM, Washington, D.C.: 19 beetles—Central and South America (exchange)

UTAH, UNIVERSITY OF, Salt Lake City: 133 freshwater clams—Utah (exchange)

VANZOLINI, DR. P. E., São Paulo, Brazil: lizard—Brazil (exchange)

VISSER, JOHN, Camps Bay, South Africa: 17 frogs—South Africa (exchange)

WALKER MUSEUM, UNIVERSITY OF CHICAGO, Chicago: approximately 4,000 snails—world-wide (gift)

WALTON, M. L., Glendale, California: 4 landsnails—California (exchange)

WERNER, DR. FLOYD, Tucson, Arizona: 3 beetles—California, and Lower California (gift)

WIRTH, DR. WILLIS W., Washington, D.C.: 43 slides of biting midges—Thailand and United States (gift)

WORLD BOOK ENCYCLOPEDIA SCIENTIFIC EXPEDITION TO THE HIMALAYAS, Chicago: 7 mammals—Nepal and Tibet (gift); 375 birds—Nepal (gift)

WYATT, ALEX K., Chicago: 24,644 butterflies and moths—chiefly North America (gift)

YUNKER, DR. CONRAD E., Canal Zone, Panama: 28 amphibians and reptiles—Panama (exchange); 61 amphibians and reptiles—Panama (gift)

ZANGERL, DR. RAINER, Hazel Crest, Illinois: 38 frogs—various localities (gift)

ZOOLOGICAL SURVEY OF INDIA, Calcutta: 2 frogs—India (exchange)

ZOOLOGISCHES MUSEUM, Amsterdam, Netherlands: lizard and snake—Indonesia (exchange)

RAYMOND FOUNDATION

NAGY, J. J., Chicago: 13 insect specimens embedded in plastic—gift

DIVISION OF PHOTOGRAPHY

CHICAGO NATURAL HISTORY MUSEUM:

Made by Division of Photography—1,882 negatives, 32,592 contact prints, 2,568 enlargements, 382 Kodachromes, 89 lantern slides, 12 rolls of film developed

DIVISION OF MOTION PICTURES

CHICAGO NATURAL HISTORY MUSEUM:

"A Sauk Village Site" (700-foot silent/color film); "Tibetan Dancers" (100-foot silent/color film)

FILM ASSOCIATES, Hollywood, California: "What's Under the Ocean" (550-foot sound/color film)—purchase

RICHARDSON, DR. EUGENE S., Jr., Gurnee, Illinois: "Shark Quarry" 400-foot silent/color film)—exchange

LIBRARY OF THE MUSEUM

American Heritage, New York

Bunting, Mrs. F. H., New Orleans

Davis, D. Dwight, Richton Park, Illinois

Dean-Throckmorton, Dr. Jeannette, Des Moines, Iowa

Dockstader, Dr. Frederick J., New York

Erize, Esteban, Museo Histórico y de Ciencias Naturales, Bahia Blanca, Brazil

Estação Agronômica Nacional, Oeiras, Portugal

Field, Dr. Henry, Coconut Grove, Florida

Field, Stanley, Lake Bluff, Illinois
Flores-Barroeta, Luis, Mexico D.F., Mexico

Gregg, Dr. Clifford C., Valparaiso, Indiana

Gregory, Mrs. Alice H., Chicago, Illinois

Harper and Brothers, Publishers, New York

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| Howe, Roger F., Chicago | Rand, Dr. Austin L., Chesterton, Indiana |
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 Biersborn, Charles F.
 Bigelow, Mrs. Ann
 Biggers, Bryan B.
 Biggs, Mrs. Joseph H.
 Bigler, Dr. John A.
 Bickle, W. E.
 Billow, Miss Virginia
 Billsten, Henry A.
 Bimmerle, Dr. John F.
 Binder, Miss Kay
 Birch, Dr. Carroll L.
 Bird, Miss Frances
 Bishop, Howard P.
 Bittel, Mrs. Frank J.
 Bittrich, Miss Grace
 Bixby, Edward Randall
 Bixby, Frank L.
 Bixby, George, Jr.
 Bjork, Eskil I.
 Black, Dr. Chester J.
 Blackburn, Oliver A.
 Blaine, James B.
 Blair, Miss Anita Carolyn
 Blair, Bowen
 Blair, Edward
 McCormick
 Blair, John M.
 Blair, Wm. McCormick
 Blair, Wolcott
 Blanksten, Samuel B.
 Blatchford, Dr. Frank Wicks
 Blecker, Mrs. Michael, Jr.
 Blessing, Mrs. Lewis G.
 Blish, Charles C.
 Bliss, Vincent R.
 Block, Joseph L.
 Block, Leigh B.
 Block, Mrs. Leigh B.
 Block, Nelson C.
 Block, Philip D., Jr.
 Block, Samuel W.
 Bloss, Mrs. Sidney M.
 Bluford, Mrs. David
 Blumenschein, C. M.
 Blumenthal, Dr. Irving
 Blumenthal, Milton M.
 Blunt, J. E.
 Boal, Stewart
 Boal, Thomas
 Bobrinskoy, Mrs. George V.
 Bodjanac, Stephen
 Bodman, Robert E.
 Bodman, W. S.
 Boe, Archie R.
 Boericke, Mrs. Anna
 Boetcher, John E.
 Boettcher, Arthur H.
 Bogert, George T.
 Bogert, Mrs. Gilbert P.
 Bohac, Ben F.
 Bohasseck, Charles
 Bohne, Carl J., Jr.
 Bolotin, Gerald G.
 Bolten, Paul H.
 Bondy, Berthold
 Bonine, Miss Ada
 Boomer, Dr. Paul C.
 Boone, Arthur
 Booth, George E.
 Borchardt, Mrs. Robert T.
 Borg, George W.
 Bori, Mrs. Albert V.
 Borland, Mrs. John Jay, II
 Borland, William F.
 Borowitz, David
 Borwell, Robert C.
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 Bosch, Mrs. Henry
 Boss, Sidney M.

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Roland I.
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Bowersox, W. A.
Bowes, Arthur S.
Bowman, Mrs. E. M.
Bowman, J. C.
Bowman, Johnston A.
Boyd, Mrs. T. Kenneth
Boyer, Paul F.
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Bradley, Roy D.
Bradway, Malcolm S.
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Branch, Judson B.
Brandel, Miss Carola R.
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Brandt, William A.
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Bransfield, John J., Jr.
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Braun, Dr. L. L.
Braun, Martin H.
Braun, Dr. Milton
Bremner, Mrs. David F.
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Brennan, B. T.
Brenner, S. L.
Brennom, Dr. Elmo F.
Breslin, Dr. Winston I.
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Bruning, Herbert F.
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Henrietta A.
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Brunswick, Larry
Brust, Paul W.
Bryant, John J.
Bua, Nicholas J.
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Buchanan, L. B.
Buchbinder, Robert
Buchen, Paul J.
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Walther H.
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Buddeke, Ivo W.
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Buehler, H. L.
Buehler, Robert
Buettner, Walter J.
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Meta Dewes
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Cahn, Morton D.
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Capes, William G.
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Carlin, Leo J.
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Carqueville, Mrs. A. R.
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Carr, Robert A.
Carr, Mrs. Robert F.
Carroll, John A.
Carroll, J. B.
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Carter, Mrs. Armistead B.
Carter, Miss Frances
Jeannette
Carton, Laurence A.
Carton, Dr. Robert W.
Caspers, Paul
Cassady, Thomas G.
Castruccio, Giuseppe
Cathcart, Silas S.
Caywood, Thomas E.
Cederlund, R. Stanley
Cerling, Fredolph A.
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Chandler, Marvin
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Chapman, Arthur E.

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 Christensen, Robert W.
 Christian, John F.
 Christiansen, Dr. Henry
 Christopher, Dr. G. L.
 Christy, Dr. Harold W.
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 Clark, Edwin H.
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 Clarke, Ernest E.
 Clarke, Dr. T. Howard
 Clay, John
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 Clement, James W.
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 Clinch, Duncan L.
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 Clonick, Herbert J.
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 Coates, John M.
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 Cohen, George B.
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 Cohen, S. T.
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 Coleman, Clarence L., Jr.
 Coleman, Dr. George H.
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 Coleman, Loring W.
 Coleman, Marvin H.
 Collias, Philip J.
 Collins, Beryl B.
 Collison, E. K.
 Colnon, Stuart
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 Colvin, Miss Jessie
 Colwell, Clyde C.
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 Arthur H.
 Compton, D. M.
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 Conger, Miss Cornelia
 Conklin, Miss Shirley
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 Conlin, Andrew F.
 Connell, P. G.
 Connery, John
 Connors, Mrs. Thomas A.
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 Cook, Jonathan Miller
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 Cook, Dr. Richard S.
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 Coonley, John Stuart
 Coonley, Prentiss L.
 Cooper, Lee
 Cooper, Samuel
 Cooper, S. Robert
 Copland, David
 Corbett, Mrs. William J.
 Cordray, Mrs. David P.
 Corrington, John W.
 Cosford, Thomas H.
 Costanzo, Dr. Vincent A.
 Costanzo, Dr.
 Vincent A., Jr.
 Costello, A. B.
 Costello, Dr. Lorne
 Coston, James E.
 Cottle, Dr. Maurice H.
 Cotton, Eugene
 Coulon, Dr. Albert E.
 Coulson, John S.
 Coulter, Mrs. J. R.
 Cowan, Ralph
 Cowen, Miss Edna T.
 Cowen, Dr. Jack P.
 Cowen, Maurice L.
 Cowles, Knight C.
 Cox, Clifford B.
 Cragg, Mrs. George L.
 Craig, George M.
 Crain, G. D., Jr.
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 Crawford, Henriques
 Crawford, W. F.
 Creange, A. L.
 Cretors, Charles J.
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 Cromwell, Miss
 Juliette Clara
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 Cryor, Robert E.
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 Cullen, J. A.
 Culmer, Dr. Charles U.
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 Cummings, Mrs. D. Mark
 Cummings, Edward M.
 Cummings, Mrs.
 Frances S.
 Cump, Percy W., Jr.
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 Cunningham, J. Lester
 Cunningham, Seymour S.
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 Guthrie, Jr.
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 Cusack, Harold
 Cushing, John Caleb
 Cushman, Barney
 Cutler, Paul William
 Cutter, Charles F.
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 Daemicke, Mrs.
 Irwin Paul
 Dahl, Miss Bernice
 Dahlberg, Wendell
 Dahlin, Carl A.
 Daily, Orville G.
 Daily, Richard
 Daley, Harry C.
 Dalmar, Mrs. Hugo
 Dalmar, Hugo, Jr.
 Daly, James J.
 Dammann, J. F.
 Dangel, W. H.
 Danielson, Philip A.
 Danley, Jared Gage
 Danne, William C., Jr.
 Dantzig, Leonard P.
 Dapples, George H.
 D'Aquila, George

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 Davidson, Louis G.
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 Davies, Trevor L.
 Davis, Arthur
 Davis, C. S.
 Davis, DeForest Paine
 Davis, Don L.
 Davis, Frank S.
 Davis, Dr. Joseph A.
 Davis, Dr. Loyal
 Davis, Morton A.
 Dawes, Charles C.
 Dawson, John H.
 Dean, Mrs. S. E., Jr.
 Deardorff, Merle S.
 Decker, Charles O.
 De Costa, Lewis M.
 de Dardel, Carl O.
 Deeming, W. S.
 Deis, Mrs. Thomas P.
 Delaney, Frederick A.
 DeLarye, Dr. William L.
 DeLay, Frank P.
 Delp, Larry
 Demaree, H. S.
 Deming, Everett G.
 Denis, Stanley T.
 Denney, Ellis H.
 Deree, William S.
 Dern, James G.
 Desgrey, Charles W.
 Des Isles, Mrs. Carrie L.
 Detmer, John F.
 De Trana, Dr. George
 Deutsch, Mrs. Percy L.
 Devine, Matthew L.
 De Vries, David
 DeWitt, Clyde F.
 DeWitt, Dennis
 Dick, A. B., III
 Dick, Elmer J.
 Dick, Robert
 Dick, Mrs. Robert F.
 Dickinson, F. R.
 Dickson, Vincent B.
 Diggs, Mrs. N. Alfred
 Diestel, Mrs. Herman
 Dietch, Henry X.
 Diller, Robert
 Diller, Theodore C.
 Dillie, James P.
 Dimick, Miss Elizabeth
 Dimmer, Miss
 Elizabeth G.
 Dixon, George W., Jr.
 Dixon, Wesley M., Jr.
 Dixon, Mrs. William
 Warren
 Dobyns, Mrs. Henry F.
 Doctor, Isidor
 Dodge, Mrs. Paul C.
 Dolan, Tom
 Dole, John L.
 Dolke, W. Fred
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 Millington
 Donlon, Mrs. Stephen E.
 Donnel, Mrs. Curtis, Jr.
 Donnelley, Elliott
 Donnelley, Mrs. H. P.
 Donohue, Edgar T.
 Doody, Miss Kitty
 Doolittle, John R.
 Dornbusch, Charles H.
 Dorocke, Joseph, Jr.
 Dorsey, John K.
 Dotson, Mrs. Heber T.
 Doucette, Robert J.
 Douglas, James H., Jr.
 Douglass, H. James
 Douglass, Mrs.
 Helen James
 Douglass, Kingman
 Dover, S. M.
 Doyon, Robert Gale
 Drago, Stephen
 Drake, Charles R.
 Drake, Robert T.
 Drake, Mrs. R. Taylor
 Drangsholt, Mrs.
 Gunnar S.
 Dreutzer, Carl
 Drever, Thomas
 Dreyfuss, Mrs. Moise
 Dry, Carl
 Dubbs, C. P.
 Duclos, George A.
 Dudak, Mrs. Anna
 Dudley, Laurence H.
 Duffy, James F.
 Dukelow, Mrs. Madelina
 Dulla, Steven G.
 Dulskey, Mrs. Samuel
 Dumelle, Frank C.
 Dunbar, James H., Jr.
 Dunbaugh, Harry J.
 Duncan, Albert G.
 Duner, Joseph A.
 Dunlap, William E.
 Dunlop, Charles
 Dunlop, Mrs. Simpson
 Dunphy, Charles S.
 Durand, Mrs. N. E.
 Dvonch, Dr. William J.
 Dyer, Robert T.
 Easterberg, C. J.
 Eastman, Mrs. George H.
 Eaton, J. Frank
 Ebberts, Todd A.
 Ebeling, Frederic O.
 Ebert, Carl H.
 Ebin, Mrs. Dorothy
 Mylrea
 Ebzery, Miss Joan
 Eckert, Theodore T.
 Eddy, Alfred K.
 Edelson, Dave
 Edelson, Mitchell, Jr.
 Edwards, Miss Edith E.
 Edwards, G. H.
 Edwards, William C.
 Eger, Gerard J.
 Ehrlich, Stanton L.
 Eichengreen, Edmund K.
 Eichler, Robert M.
 Eiseman, Fred R.
 Eisenberg, Sam J.
 Eisendrath, Edwin W.
 Eisendrath, Miss Elsa B.
 Eishhower, Earl D.
 Eisenschiml, Mrs. Otto
 Eisenstein, Sol
 Elcock, Mrs. Edward G.
 Eldred, Mrs. Harriot W.
 Ellbogen, Miss Celia
 Ellies, E. E.
 Elliott, Mrs. Edwin P.
 Elliott, Miss Grace E.
 Ellis, Mrs. G. Corson
 Ellis, Howard
 Elmer, Mrs. Clarence W.
 Elting, Winston
 Elvgren, Gillette A.
 Emanuelson, Conrad R.
 Embree, Henry S.
 Embree, J. W., Jr.
 Emery, Edward W.
 Emmerich, Miss Clara L.
 Engberg, Miss Ruth M.
 Engelman, Mrs. Robert S.
 English, Harold
 English, William L.
 Engstrom, Harold
 Entsminger, Samuel E.
 Epstein, Harvey
 Epstein, Herman L.
 Erickson, L. Hyland
 Ericson, Mrs. Chester F.
 Ericsson, Clarence
 Ericsson, Dewey A.
 Ericsson, Walter H.
 Erikson, Carl A.
 Erman, Walter
 Ernest, Joseph R.
 Ernst, Mrs. Leo
 Escudier, A. F.
 Esgar, R. Rea

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- Ettelson, Jerome
 Lawrence
 Etten, Henry C.
 Evans, Miss Anna B.
 Evans, Eliot H.
 Evans, Keith J.
 Evans, Vernon K.
 Everett, William S.
 Evers, John W.

 Faber, Milton D.
 Fabrice, Edward H.
 Fackt, Mrs. George P.
 Factor, Mrs. Jerome
 Fader, A. L.
 Fairweather, Dr. D. H.
 Faherty, Roger
 Faithorn, Walter E.
 Falk, Dr. Alfred B.
 Falk, Ralph, II
 Falls, Dr. A. G.
 Farley, Preston
 Farnham, Mrs. Harry J.
 Farrell, Mrs. B. J.
 Farrell, Mrs. Ernest H.
 Farwell, Albert D.
 Farwell, John V., III
 Faurot, Henry, Jr.
 Faust, Harry C.
 Fay, Eugene C.
 Febhardt, Mrs. Ernest A.
 Feinstein, Edward
 Howard
 Feiwell, Morris E.
 Fell, Dr. Egbert H.
 Fellows, William K.
 Felsenthal, Edward
 George
 Fennekohl, Mrs.
 Arthur C.
 Ferguson, R. W.
 Fernald, Robert W.
 Ferry, Mrs. James H., Jr.
 Fetzter, Wade, Jr.
 Fiduccia, Charles B.
 Field, John S.
 Field, Meyer
 Fiffer, Robert S.
 Filerman, Arthur
 Filkins, A. J.
 Fineman, Oscar
 Fink, Mrs. Frank
 Finley, Max H.
 Finnerud, Dr. Clark W.
 Firscl, Maurice S.
 Fish, Mrs. Helen S.
 Fishbein, Dr. Morris
 Fisher, Mrs. Raymond
 Fisk, Mrs. Burnham M.
 Fiske, Kenneth M.

 Fitzmorris,
 Mrs. Charles C., Sr.
 Fitzmorris, James
 Fitz Simmons, Dr. J.
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 Flanagan, James F.
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 Fleming, E. I.
 Fleming, Mrs. Joseph B.
 Fletcher, Joseph
 Fletcher, Mrs. Mildred C.
 Flinn, Walter H., Jr.
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 Florsheim, Harold M.
 Florsheim, Irving S.
 Flowers, Dr. Vladimir C.
 Foell, W. J.
 Follansbee, Rogers
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 Folsom, Mrs. William R.
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 Foreman, Edwin G., Jr.
 Foreman, Harold E.
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 Forgan, Robert D.
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 Forster, J. George
 Fort, George A.
 Fortune, Miss Joanna
 Foster, Mrs. Charles K.
 Foster, Robert S.
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 Fowler, Mrs. Earle B.
 Fox, Clarence E.
 Fox, Jacob Logan
 Fox, Myron H.
 Fox, Dr. Paul C.
 Franche, Mrs. D. C., III
 Frank, Arthur A.
 Franke, Allyn J.
 Frankel, Jones B.
 Frankel, Louis
 Frankenstein, Lester E.
 Frankenstein, William B.
 Franklin, G. K.
 Fraser, Edward S.
 Frasier, Richard C.
 Frazer, Mrs. George E.
 Freda, Dr. Vincent C.
 Frederick, Mrs.
 Clarence L.
 Freeman, Gaylord A.
 Freeto, Clarence E.
 Freiler, Abraham J.
 Frenier, A. B.
 Freudenthal, G. S.

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 Freund, Mrs. J. Dennis
 Frey, Charles Daniel
 Freyn, Henry J.
 Fridstein, Meyer
 Friedberg, Dr. Stanton A.
 Friedlander, William
 Friedlich, John
 Friedman, Norman B.
 Friedman, Raphael N.
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 Frye, W. P.
 Frystak, A. J.
 Fucik, E. Montford
 Fuller, Mrs. Gretta
 Patterson
 Fuller, J. E.
 Fuller, Judson M.
 Fuller, Perry L.
 Fullerton, Thomas
 Fulton, Paul C.
 Fyanes, F. D.

 Gabriel, Adam
 Gaertner, William
 Gainer, Walter D.
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 Galgano, John H.
 Gall, Frank
 Gall, Harold J. F.
 Gall, Harry T.
 Gallup, Rockwell L.
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 Rickcoards
 Galt, Mrs. A. T.
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 Gamble, E. Ross
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 Gardner, Addison L., Jr.
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 Gardner, Frederick D.
 Gardner, Henry A.
 Gardner, Henry K.
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 Geittmann, Dr. W. F.
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 Gensburg, Samuel H.

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 Sidney H.
Gettleman, Arthur
Gettleman, Frank E.
Getz, James R.
Getz, Mrs. James R.
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Gibbs, Richard F.
Gibson, Paul
Gibson, Truman K., Jr.
Gidwitz, Alan K.
Gidwitz, Victor E.
Gidwitz, Willard
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 Frederick C.
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Gilchrist, Mrs. William
 Albert
Giles, Dr. Chauncey D.
Giles, Mrs. Guy H.
Giles, John O.
Gillett, Frank G.
Gillett, W. N.
Gilmore, Dr. John H.
Gimbel, J. W., Jr.
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Glaescher, Mrs. G. W.
Glamann, Miss Johanna C.
Glasner, Rudolph W.
Glasser, Joshua B.
Glassner, James J.
Glenn, Miss Terry
Glick, Louis G.
Gluck, Gerson, I.
Glore, Robert Hixon
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Gobler, David
Godley, Mrs. John M.
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Goessle, John H.
Goldberg, Charles K.
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Goldsby, Fred L.
Goldstein, Dr. Abraham
Goldstein, Dr. Helen L.
 Button
Goldstein, Nathan S.
Goldy, Walter I.
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Goodwin, George S.
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Gordon, Edward
Gordon, Harold J.
Gordon, Leslie S.
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Graham, Douglas
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 Margaret H.
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Graves, Howard B.
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Grawols, G. L.
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Gray, Philip S.
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Greenburg, Dr. Ira E.
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Greene, Howard T.
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Greenebaum, Robert J.
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 Brooks
Greenman, Mrs. Earl C.
Greenwald, Herbert S.
Gregg, Clarence T.
Gregory, James J.
Gregory, Stephen S., Jr.
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Grey, Dr. Dorothy
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 Edwin O.
Griffith, Mrs. Carroll L.
Griffith, Mrs. William
Grimes, Don R.
Griswold, Harold T.
Grizzard, James A.
Groak, Irwin D.
Grohe, Robert F.
Gronkowski, Rev. C. I.
Groot, Cornelius J.
Grosberg, Charles
Grossman, Frank I.
Grote, Russell H.
Grotowski, Mrs. Leon
Grunow, Mrs. William C.
Guenzel, Paul W.
Guernsey, Mrs. Nellie T.
Guest, Ward E.
Guetzkow, Harold S.
Guldager, Carl D.
Gunlock, V. E.
Gurley, Miss Helen K.
Gustafson, Carl
Gustafson, Carl I.
Gustafson, Gilbert E.
Gustafson, Mrs.
 Winfield A.
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Guthrie, S. Ashley
Gwinn, R. P.
Haas, Albert F.
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Hadley, Mrs. Edwin M.
Haedike, Edward J.
Hagen, Mrs. Daise
Hagues, Mrs. David N.
Hahn, Arthur
Hailand, Arthur G.
Haines, Mrs. James J.
Hair, T. R.
Hajicek, Rudolph F.
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Hales, Burton W., Jr.
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Hall, Mrs. J. B.
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Halligan, W. J.
Halperin, Aaron
Halverstadt, Romaine M.
Hamilton, Miss Eva Alice
Hamilton, Samuel
Hamm, Fred B.
Hammaker, Paul M.
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 George F.
Hand, George W.
Handy, Ellsworth A.
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Hansen,
 Mrs. Bertha Cooley
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Hansen, Jacob W.

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|--------------------------|--------------------------|------------------------|
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| Harders, Mrs. Flora | Hefner, Adam | Hodges, F. Robert |
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 Howard, Howell H.
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Howard G.
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Herman L., Jr.
Krez, Leonard O.
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Kribben, Delafield
Kridler, E. A.
Kritzer,
Richard W., Sr.
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Kroeschell, Robert A.
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Kuhn, Dr. Hedwig S.
Kuhn, Overton F.
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Atchison
Laffin, Louis E., Jr.
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Laffin, Louis E., III
Laffin, Miss Mary
Josephine
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Lambertsen, John G.
Lambrecht, Carl R., Jr.
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 Lang, Edward J.
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 Taylor
 Lanman, David T.
 Lanman, Mrs.
 Edward Boylston
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 Lapham, Fenton D.
 Large, Judson
 Larimer, Howard S.
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 Larsen, Samuel A.
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 Larson, L. S.
 Larson, Mrs. Sarah G.
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 Lavers, A. W.
 Lavidge, Arthur W.
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 Lawton, Robert M.
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 Leahy, James F.
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 Robert
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 Levin, Robert E.
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 Morrison, D. K.
 Morrison, Mrs. Harry
 Morrison, James C.
 Morrow, Mrs. John, Jr.
 Morse, Mrs. Charles J.
 Morse, Leland R.
 Morse, Mrs. Milton M.
 Morse, Robert H.
 Moses, Howard A.
 Mosher, Edward A.
 Moss, Jerome A.
 Moss, John T.
 Mossman, John E.
 Mostek, Raymond
 Mouat, Andrew J.
 Moulding, Mrs. Arthur T.
 Moxon, Dr. George W.
 Moyer, Mrs. David G.
 Moyer, Mrs. Paul S.

 Mudd, Mrs. J. A., Jr.
 Muehlstein, Mrs.
 Charles
 Mueller, Austin M.
 Mueller, J. Herbert
 Mulcahy, Mrs.
 Michael F.
 Mulhern, Edward F.
 Mullaney, Paul L.
 Mullen, Mrs. Esther T.
 Mullen, Dr. Joseph J.
 Mundstock, Robert W.
 Munnecke, Wilbur C.
 Munnecke, Mrs.
 Wilbur C.
 Munroe, Moray
 Murphy,
 Carroll Dean, Jr.
 Murphy, Charles F.
 Murphy, Edward F.
 Murphy, Joseph D.
 Murphy, O. R.
 Murphy, Robert E.
 Murphy, W. Richard
 Muszynski, John J.
 Myers, Harold B.
 Myrland, Arthur L.

 Nachman, H. S.
 Naess, Sigurd E.
 Nafziger, R. L.
 Nagel, Mrs. Frank E.
 Nance, Willis D.
 Nardi, Victor G.
 Nath, Bernard
 Nathan, Joseph E.
 Naumann, Miss Susan
 Nebel, Herman C.
 Neely, Mrs. Lloyd F.
 Nehls, Arthur L.
 Nelson, Arthur W.
 Nelson, Charles G.
 Nelson, Charles M.
 Nelson, James S.
 Nelson, Victor W.
 Neskow, Dr. Peter S. Y.
 Nessler, Robert P.
 Neuman, Sidney
 Neumann, Arthur E.
 Newberg, Paul K.
 Newberger, Arnold
 Newberger, Joseph
 Michael
 Newcombe, Leo
 Newhouse, Karl H.
 Newman, Mrs. Albert H.
 Newman, Charles H.
 Newman, Ralph G.
 Newton, C. G.
 Nichols, Frank Billings
 Nichols, J. C.

 Nielsen, George
 Nietschmann, Walter
 Nilson, Alfred R.
 Nilsson, Mrs.
 Goodwin M.
 Nishkian, Mrs.
 Vaughn G.
 Nitze, Mrs. William A.
 Noble, Daniel E.
 Noble, Samuel R.
 Noonan, Edward J.
 Norell, Elmer G.
 Norem, Mrs. Lawrence E.
 Norian, Richard
 Norman, Harold W.
 Norris, Mrs. Lester
 Norton, Christopher D.
 Novak, Charles J.
 Noyes, Mrs. May Wells
 Nusbaum, Mrs.
 Hermien D.

 Obermaier, John A.
 O'Brien, Miss Janet
 O'Connell, Edmund
 Daniel
 O'Connor, Hugh J.
 O'Connor, John B.
 Odell, Miss Audrey
 Oden, Dr. Joshua, Jr.
 Oester, Dr. Y. T.
 Offield, Mrs. James
 Offield, Wrigley
 Oglesbee, Nathan H.
 O'Hara, Arthur J.
 O'Keeffe, William F.
 O'Kieffe, De Witt
 Okner, Dr. Henry B.
 Olaison, Miss Eleanor O.
 Oldefest, Edward G.
 Oleson, Wrisley B.
 Olin, Carl E.
 Olin, Edward L.
 Oliver, Dr. Marguerite
 Oliver, Mrs. Paul
 Olsen, Miss Agnes J.
 Olsen, Mrs. Arthur O.
 Olson, Albert M.
 Olson, Benjamin
 Franklin
 O'Neil, Dr. Owen
 O'Neill, J. W.
 Onofrio, Mrs. Michael J.
 Ooms, Casper William
 Oppenheimer, Seymour
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 O'Rourke, Albert
 O'Rourke, Mrs. Harry J.
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 Orr, Thomas C.
 Ortmyer, Dr. Marie

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 Otis, Peter Witherspoon
 Otis, Stuart Huntington
 O'Toole, Donald
 Ott, Mrs. Fentress
 Ott, John Ekern
 Ott, John Nash, Jr.
 Ott, Wendel Fentress
 Owens, Harry J.
- Paasche, Jens A.
 Packard, Dr. Rollo K.
 Paffhausen, J. V.
 Page, John W.
 Pagel, Mrs. William H.
 Pallasch, Dr. Gervaise P.
 Palm, Felix
 Palmer, James L.
 Palmer, O. Earl
 Palmgren, Mrs.
 Charles A.
 Paluch, Edward J.
 Pandaleon, Costa A.
 Papierniak, Dr. Frank B.
 Paradee, Sidney A.
 Pardee, Harvey S.
 Park, R. E.
 Parker, Miss Edith P.
 Parker, Norman S.
 Parker, Troy L.
 Parks, C. R.
 Parmelee, Dr. A. H.
 Parry, Mrs. Norman G.
 Partridge, Lloyd C.
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 Paschen, Herbert C.
 Pashkow, A. D.
 Patchen, Dr. Paul J.
 Patrick, Harry H.
 Patterson, Grier D.
 Patterson, R. Curtis
 Patterson, Thomas A.
 Patton, A. E.
 Patzelt, Miss Janet
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 Peabody, Miss Susan W.
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 Pearson, George
 Albert, Jr.
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 Pellettieri, Dr. D. J.
 Pellicore, Dr.
 Raymond J.
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- Pencik, Jan M.
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 Perel, Harry Z.
 Perkins, Harry D.
 Perkins, L. B.
 Perlman, Daniel
 Perlman, Henry
 Perlman, Raymond L.
 Perrigo, Charles R.
 Perry, Mrs. I. Newton
 Peskin, Bernard M.
 Peterkin, Daniel, Jr.
 Peters, Harry A.
 Petersen, Jurgen
 Petersen, William O.
 Peterson, Mrs.
 Elizabeth F.
 Pettibone, Holman D.
 Petty, P. E.
 Pfaelzer, Miss
 Elizabeth W.
 Pflaumer, Robert E.
 Pflock, Dr. John J.
 Philipsborn,
 Herbert F., Sr.
 Philipsborn,
 Colonel M. M., Jr.
 Phillips, Dr. Herbert
 Morrow
 Phoenix, George E.
 Pick, Frederic G.
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 Pierce, J. Norman
 Pierce, Paul, Jr.
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 Pierson, Roy J.
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 Pirie, Mrs. John T.
 Pirie, Mrs. S. C., Jr.
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 Plochman, Cordelia G.
 Plummer, Comer
 Plunkett, Paul M.
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 Hayes
 Poister, John J.
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 Pope, Herbert
 Pope, John W.
 Poppell, Tyson E.
 Poppenhagen, Henry J.
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 Porter, Louis
 Porter, Mrs. Sidney S.
 Posey, Chester L.
 Post, Myron H.
 Pottenger, William A.
 Potter, Howard I.
 Potter, Dr. Robert Morse
 Potts, Albert W.
 Poulson, Mrs. Clara L.
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 Prall, Bert R.
 Pray, Max
 Preble, Robert C.
 Price, Frederick J.
 Price, John McC.
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 Prince, Harry
 Prince, Rev. Herbert W.
 Prince, Kenneth C.
 Prince, Leonard M.
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 Pritikin, Marvin E.
 Pritzker, Mrs. Jack
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 Prosser, Mrs. John A.
 Prussing, Mrs. R. E.
 Pucci, Lawrence
 Purcey, Victor W.
 Puttman, A. Jerry
 Puttkammer, E. W.
 Puzey, Russell V.
- Quick, Miss Hattiemae
 Quigley, Jack A.
- Racheff, Ivan
 Radebaugh, Richard J.
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 Radford, Mrs. W. A., Jr.
 Radovich, Miss Bessie
 Raff, Mrs. Arthur
 Raftree, Miss Julia M.
 Ragan, Alvin J.
 Railton, Miss Frances
 Ramis, Leon Lipman
 Randall, Rev. Edwin J.
 Randall, Irving
 Raney, Mrs. R. J.
 Rankin, Miss Jessie H.
 Rathburn, M. Hudson
 Rathje, Frank C.
 Ratner, Walter B.
 Ray, Harold R.
 Rayfield,
 Master Russell P.
 Rayfield,
 Master Rutherford P.
 Raymond, Mrs.
 Howard D.

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- Reach, Benjamin F.
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 Reed, Mrs. Philip L.
 Reeder, Howard C.
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 Regenstein, Joseph, Jr.
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 Reid, Bryan S., Jr.
 Reid, Robert H.
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 Reilly, Vincent P.
 Reinecke, Lester W.
 Reisch, Mrs. Louis J.
 Remien, Miss
 Marie Katherine
 Renaldi, George J.
 Renn, Mrs. John A.
 Renouf, William
 Renshaw, Mrs. Charles
 Rentschler, Mrs.
 William H.
 Replogle, Dr. Fred A.
 Re Qua, Mrs. Charles
 Howard, Jr.
 Rew, Mrs. Irwin
 Reynolds, Mrs.
 G. William
 Reynolds, Harold F.
 Rhines, James E.
 Rhodes, Charles M.
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 Rice, Laurence A.
 Rich, Elmer
 Rich, Franklin J.
 Rich, Harry
 Richards, Mrs. Bartlett
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 Richards, Longley
 Richards, Marcus D.
 Richardson, George A.
 Richardson, Irving
 Richter, Mrs. Adelyn W.
 Rickcords, Mrs.
 Francis Stanley
 Ridley, Douglas K.
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 Rieser, Leonard M.
 Rietz, Elmer W.
 Rietz, Walter H.
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 Riley, John H.
 Rinaldo, Philip S., Jr.
 Rindfleisch, Keith P.
 Risdon, Russell R.
 Ritchie, Mrs. John

 Roberts, Charles S.
 Roberts, Harry V.
 Roberts, William
 Munsell
 Robertson, Scott
 Robinson, Edward
 Robinson, Milton D.
 Robinson, R. W.
 Robinson,
 Theodore W., Jr.
 Robinson, William S.
 Roddewig, Clair M.
 Roderick, Solomon P.
 Rodgers, Dr. David C.
 Rodman, Thomas
 Clifford
 Rodman, Mrs. Hugh
 Roe, Frederick
 Roebuck, Mrs. A. S.
 Roehling, Mrs. Otto G.
 Roehm, George R.
 Roehrborn, Ernest R.
 Rogers, Miss Annie T.
 Rogers, Mrs. George P.
 Rogers, Lester C.
 Roggenkamp, John
 Rohloff, Paul F.
 Romane, Julian J. (Pat)
 Rome, Samuel
 Romer, Mrs. Arthur C.
 Roos, Miss Virginia M.
 Root, John W.
 Rosborough, Dr. Paul A.
 Rose, Miss Evelyn
 Rosen, M. R.
 Rosenbaum, Mrs.
 Edwin S.
 Rosenbaum, Mrs.
 Harold A.
 Rosenfeld, M. J.
 Rosenfels, Mrs. Irwin S.
 Rosenstone, Nathan
 Rosenstone, Samuel
 Rosenthal, J. F.
 Rosenthal, M. A.
 Rosenthal, Samuel R.
 Rosenwald, Richard M.
 Ross, Mrs. Doris Serrins
 Ross, Earl
 Ross, Robert C.
 Ross, Thompson
 Rosset, Harry
 Rotchford, J. Stuart
 Rotenberry, Dean
 Roth, Mrs. Donald I.
 Roth, Mrs. Margit
 Hochsinger
 Roth, Walter L.
 Rothacker, Watterson R.
 Rothschild, George
 William

 Rothschild,
 Melville N., Jr.
 Routh, George E., Jr.
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 Rowe, John R.
 Rozelle, Mrs. Emma
 Rubinson, Kenneth Alan
 Rubloff, Arthur
 Rubovits, Mrs. Frank E.
 Ruettinger, John W.
 Runions,
 Mrs. Eugene Smith
 Runnells, John S.
 Ruppert, Max K.
 Russell, Mrs. Mary H.
 Russell, Robert S.
 Rutledge, George E.
 Ryan, Arthur
 Ryan, Eugene F.
 Ryerson, Mrs.
 Donald M.

 Sacco, Anthony E.
 Sachar, Bernard
 Sackett, Samuel J.
 Sage, W. Otis
 Saks, Benjamin
 Salk, Erwin A.
 Salk, Dr. Melvin R.
 Salmon, Mrs. E. D.
 Saltzberg, Gerald B.
 Salzman, Charles N.
 Sample, John Glen
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 Sampson, H. R.
 Samuelson, George
 Sandidge, Miss Daisy
 Sandquist, Elroy C., Jr.
 Sandquist, Dr. Robert W.
 Sandler, George S.
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 San Filippo, Dr. Paul D.
 Sanow, Harry R.
 Santini, Mrs. Randolph
 Sargent, Chester F.
 Sasser, Mrs. Fred H.
 Satter, Mark J.
 Sauter, Fred J.
 Sawyer, Dr. Alvah L.
 Sawyer, Calvin P.
 Scalbom, G. Trumbull
 Scarborough, Mrs. Henry
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 Schaefer, Fred A.
 Schafer, Mrs. Elmer J.
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 Schanfield, Leonard
 Scharin, Mrs. J. Hippach
 Scheinman, Jesse D.
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 Schenck, Frederick

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- Schenk, Miss Marion H.
 Scheu, Ralph
 Schick, Dr. Armin F.
 Schlatter, Miss Nina E.
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 Schloer, Harold J.
 Schloss, Harold W.
 Schmidt, Dr. Charles L.
 Schmidt, Mrs. Minna M.
 Schmitz, Dr. Henry
 Schneider, D. G.
 Schneider, F. P.
 Schnering, P. B.
 Schnering, Robert B.
 Schnur, Ruth A.
 Schnute, Dr. William J.
 Schoenhofen, Leo H.
 Scholl, Dr. William M.
 Schonne, Mrs.
 Charles W.
 Schoonhoven, Ray J.
 Schreiner, Sigurd
 Schrey, Dr. Edward L.
 Schuck, E. H.
 Schueren, Arnold C.
 Schulman, Dr. Jerome L.
 Schulze, Mrs. Mathilde
 Schumaker, Lawrence C.
 Schupp, Philip C.
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 Schuyler, Mrs.
 Daniel J.
 Schwab, Laurence E.
 Schwander, J. J.
 Schwandt, Miss Erna
 Schwanke, Arthur
 Schwartz, Charles F.
 Schwartz, Charles K.
 Schwartz, Charles P.
 Schwartz, Edward H.
 Schwartz, Joseph H.
 Schwartz, Leo J.
 Schwartz, Milton H.
 Schwartz, Nathan H.
 Schwartz, Dr. Otto
 Schwartz, Dr. Steven O.
 Schwinn, Frank W.
 Sciaky, Sam
 Scott, Miss Maud E.
 Scott, Willis H.
 Scribner, Gilbert
 Scribner, Gilbert H., Jr.
 Scudder, Mrs.
 William M.
 Seaholm, A. T.
 Searle, Daniel C.
 Searle, Mrs. Nell Y.
 Searle, William L.
 Searles, Donald K.
 Sears, Miss Dorothy
 Sears, J. Alden
 Searson, R. V.
 Seaton, G. Leland
 Seaverns, Louis C.
 Sedgwick, C. Galen
 Sedlacek, Frank
 See, Dr. Agnes Chester
 Seeburg, Justus P.
 Seeburg, Noel M., Jr.
 Segal, Myron M.
 Segal, Victor
 Seibold, Mrs.
 Arthur B., Jr.
 Seifert, Mrs. Walter J.
 Seip, Emil G.
 Seipp, Clarence T.
 Seipp, Edwin A., Jr.
 Seipp, William C.
 Selig, Lester N.
 Selseth, Ole
 Sembower, John F.
 Sencenbaugh, Mrs. C. W.
 Senne, John A.
 Sensibar, Mrs. Ezra
 Serota, Dr. H. M.
 Sethness, C. H., Jr.
 Sevic, Mrs. William
 Sewell, Allen K.
 Sexton, Thomas G.
 Shanahan, Mrs. David E.
 Shapiro, Henry
 Sharp, Carl J.
 Sharrow, H. N.
 Shaw, Alfred P.
 Shaw, John I.
 Sheesley, Jay R.
 Sheldon, James M.
 Shelton, Dr. W. Eugene
 Shepherd, Mrs. Edith P.
 Shepherd, Miss Olive M.
 Sherman, Mrs. W. W.
 Shillestad, John N.
 Shillinglaw, David L.
 Shoan, Nels
 Shoemaker, M. M.
 Shoemaker, Paul B.
 Shorey, Clyde E.
 Shroyer, Malcolm E.
 Shumway, Edward D.
 Shumway, Mrs. Edward
 De Witt
 Shumway, Spencer
 Thomas
 Shure, Myron B.
 Sibley, Joseph C., Jr.
 Siebert, C. Stuart, Jr.
 Siebel, George E.
 Sieck, Herbert
 Siemund, Roy W.
 Sieracki, Mrs. Anton
 Silander, A. I.
 Silberman, Charles A.
 Silberman, David, Jr.
 Silberman, David B.
 Silberman, Hubert S.
 Silberman, N. M.
 Sill, Vincent D.
 Sills, Budd
 Sills, Clarence W.
 Silverstein, Ramond
 Simond, Robert E.
 Simonds, Dr. James P.
 Simonson, Burton E.
 Simpson, Lyman M.
 Sims, Edwin W., Jr.
 Sims, William W.
 Sinaiko, Dr. Edwin S.
 Sincere, Henry B.
 Sinclair, Dr. J. Frank
 Singer, Mrs. Mortimer H.
 Singer, William A.
 Sinsheimer, Allen
 Siragusa, Ross D.
 Sisskind, Louis
 Sittler, Edwin C.
 Sivage, Gerald A.
 Skarrn, Kenneth W.
 Skleba, Dr. Leonard F.
 Slater, Frederick J.
 Sloan, Dr. Noah H.
 Smallberg, Dr.
 William A.
 Smick, Robert W.
 Smith, Bruce M.
 Smith, Edgar H.
 Smith, Dr. Edward C.
 Smith, Harold Byron
 Smith, Mrs. Hermon
 Dunlap
 Smith, J. P.
 Smith, Jens
 Smith, John F., Jr.
 Smith, Mrs.
 Katharine Walker
 Smith, Mrs. Kinney
 Smith, L. Richard
 Smith, Lynwood
 Smith, Miss Marion D.
 Smith, Miss Ollie M.
 Smith, Paul C.
 Smith, Philip E.
 Smith, R. L., Jr.
 Smith, Mrs. Ruth B.
 Smith, Mrs. Theodore
 White
 Smith, Z. Erol
 Smuk, Dr. J. E.
 Smullan, Alexander
 Snodell, Walter S., Jr.
 Snow, Lendol D.
 Snyder, Harry
 Snyder, Richard E.
 Sobel, Mrs. Herbert H.

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- Sola, Joseph G.
Solinsky, R. S.
Solomon, Alfred B.
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Sonntag, Dr. Joseph F.
Sopkin, Mrs. Setia H.
Sorensen, Stanley M.
Sorensen, T. R.
Spacek, Leonard P.
Spalding, Mrs.
 Vaughn C., Jr.
Specht, Mrs. F. W.
Speigel, Dr. I. Joshua
Speer, Robert J.
Spencer, Mrs.
 Frederich L.
Spencer,
 Mrs. Humphrey Orr
Spencer, William M.
Spencer, Mrs. William M.
Sperry, Mrs. Leonard M.
Sperry, Oliver R.
Spertus, Herman
Spiegel, Mrs. Arthur H.
Spiegel, Mrs. Gatzert
Spiegel, Dr. Manuel
Spiegel, Peter J.
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Spielmann, Willson
Spitz, Joel
Spooner, Dr. Bruce A.
Sporrer, M. J.
Sprague, Dr. John P.
Spray, Cranston
Spreyer, F. L.
Sptrel, Dr. Simon L.
Squires, John G.
Staack, Dr.
 H. Frederick, Jr.
Stacey, Mrs. Thomas I.
Staehle, Jack C.
Staley, Miss Kate
Stanhaus, Wilfrid X.
Stanley, Justin A.
Stannard, F. J.
Starbird, Miss Myrtle I.
Starrels, Joel
Stateler, C. B.
Staub, E. Norman
Steadry, Frederick O.
Stefan, Joseph J.
Steele, Henry B., Jr.
Steele, Mrs. Walter D.
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Steiner, Harold C.
Stenson, Frank R.

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Sterba, Dr. Joseph V.
Stern, Mrs. Alfred
Stern, Gardner H.
Stern, Oscar D.
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 Mrs. Joseph True
Stevens, Mrs.
 Clement D.
Stevens, Delmar A.
Stevens, Elmer T.
Stevenson, Engval
Stewart, John
Stiglitz, Reuben
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Stiner, Mrs. Norman J.
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Stirling, Miss Dorothy
Stitt, Robert B.
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Stoker, Nelson D.
Stone, J. McWilliams, Jr.
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Storer, E. W.
Stough, Mrs. Jay
Stratton, Paul
Straus, Frederick W.
Straus, Henry H.
Straus, Martin L.
Straus, Melvin L.
Strauss, Dr. Alfred A.
Strauss, Mrs.
 Herman A.
Strauss, Ivan
Strauss, John L.
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Strickfaden, Miss
 Alma E.
Stromberg, Charles J.
Strong, Edmund H.
Strong, M. D.
Strong, Mrs. Walter A.
Strotz, Harold C.
Stuart, Robert D., Jr.
Stuebner, Erwin A.
Stulik, Dr. Charles
Stults, Allen P.
Sturgis, John C.
Sturtevant, Roy E.
Sturtevant, Mrs. Roy E.
Sudler, Carroll H., Jr.
Summer, Mrs. Edward
Sundin, Ernest G.
Suomela, John P.
Sutherland, Mrs. Robert
Sutherland, William
Sutter, William P.
Swain, David F.

Swanson, Holgar G.
Swartchild, Edward G.
Swartchild, William G.
Swett, Israel
Swett, Robert Wheeler
Swibel, Charles R.
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Swift, Edward F., Jr.
Swift, George H., Jr.
Swift, Gustavus F., Jr.
Swonk, Wayne
Sykes, Aubrey L.
Sykes, Byron M.
Sykes, Mrs. Wilfred
Symons, John
Synek, Henry Thrush
Szymanski,
 Dr. Frederick J.

Talbot, Mrs. C. Conover
Talbot, Mrs. Stuart
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Tanan, Stanley J.
Tarrant, Mrs. Robert
Tarrant, Ross
Tax, Dr. Sol
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Taylor, Herbert J.
Taylor, L. S.
Taylor, Orville
Taylor, Robert C.
Tellschow, H. B.
Temple, Charles Vaché
Tenney, Henry F.
Terry, Fos Bell
Tessem, Nels
Thatcher, Everett A.
Thatcher, Dr. Harold W.
Thelen, Floyd E.
Thillens, Melvin
Thomas, Mrs. Florence T.
Thomas, Dr. William A.
Thomas, W. E.
Thompson, Arthur H.
Thompson, A. M.
Thompson, Ernest H.
Thompson, Floyd E.
Thompson, John E.
Thompson, Dr. W. V.
Thon, Warren H.
Thoren, Mrs. J. N.
Thorne, Hallett W.
Thornton, Roy V.
Thorson, Reuben
Thorson, Mrs. Reuben
Thrasher, Dr. Irving D.
Thresher, C. J.
Thulin, F. A.
Thullen, Henry M.
Tibbetts, Mrs. N. L.

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 Tieken, Theodore
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 Tolpin, Paul H.
 Tonn, George
 Topaz, Martin
 Torbet, A. W.
 Torff, Selwyn H.
 Torosian, Peter G.
 Torrence, George P.
 Touchstone, John Henry
 Towler, Kenneth F.
 Towne, Mrs. John D. C.
 Tracy, Wilfred
 Traer, Glenn W.
 Trainor, H. J.
 Trask, Arthur C.
 Traut, Bernard H.
 Travelletti, Bruno L.
 Travers, Vernon
 Travis, Eugene C.
 Traylor, Mrs.
 Melvin A., Sr.
 Traylor, Mrs.
 Melvin A., Jr.
 Trees, George S.
 Treffeisen, Gustave
 Trenkmann, Richard A.
 Trentlage, Richard B.
 Trimarco, Ralph R.
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 Tripp, Chester D.
 Trombly, Dr. F. F.
 Trowbridge, Mrs.
 A. Buel, Jr.
 Trude, Mrs. Mark W.
 True, Charles H.
 Trumbull, William M.
 Tumpeer, Joseph J.
 Turner, G. H.
 Turner, Mrs. Horace E.
 Turney, Kenneth R.
 Turow, Dr. David D.
 Twerdahl, Edward A., Jr.
 Tyler, Thomas S.
 Tyrrell, Miss Frances

 Ughetti, John B.
 Uihlein, Edgar J., Jr.
 Ullmann, Herbert S.
 Ullmann, S. E.
 Ulrich, Norman A.
 Upham, Mrs.
 Frederic W.
 Urbain, Leon F.
 Uriell, Francis H.
 Ustick, Robert W.

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 Vacin, Emil F.
 Vail, Dr. Derrick T.
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 Valentine, Andrew L.
 Valentine, Patrick A.
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 Flora D.
 Vance, Dr. Graham A.
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 Van Cleef, Mrs. Noah
 Van Cleef, Paul
 Van Dellen, Dr.
 Theodore R.
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 Dr. Cornelius A.
 Van Deventer,
 Christopher
 Vanek, John C.
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 Elizabeth
 Van Kirk, Mrs. R. D.
 Van Mell, Herman T.
 Van Ness, C. Radford
 Van Nice, Errett
 Van Schaak, R. H., Jr.
 Van Tassel, Karl R.
 Van Winkle, James Z.
 Van Zwoil, Henry B.
 Varel, Mrs. C. D.
 Vaughan, Norman
 Vawter, William A., II
 Vehe, Dr. K. L.
 Venema, M. P.
 Venerable, Mrs. James T.
 Vernon, John T.
 Verson, David C.
 Vette, J. L.
 Vial, Charles H.
 Vickery, Miss Mabel S.
 Vil, Dr. Charles S.
 Vogel, James B.
 Vogl, Otto
 Vogt, Mrs. Albert
 Volkober, J. A.
 Von Colditz, Dr.
 G. Thomsen
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 Schultz, Arthur L.
 Schultz, Chester H.
 Schultz, Eugene B., Jr.
 Schultz, W. Norman
 Schuster, Amos M.
 Schuth, O. D.
 Schuttler, Mrs. Peter
 Schwalm, Harold E.
 Schwartz, Ben E.
 Schwartz, U. S.
 Schweich, Anderson M.
 Schwemm, Earl M.
 Scofield, Clarence P.
 Scott, A. Charles
 Scott, Frederick H.
 Scott, J. Grant
 Scott, Mrs. J. Russell
 Scott, Mrs. Marion R.
 Scott, Robert M.
 Scott, Walter B.
 Scrimgeour, Miss
 Gladys M.
 Scully, Charles F.
 Seaman, H. Gilbert
 Seaman, Henry L.
 Seaman, Irving, Jr.
 Seator, Douglas S.
 Seaverns, George A., Jr.
 Seckler, Samuel A.
 Seeley, Miles G.
 Seelmayer, Miss Helen M.
 Segal, J. Herzl
 Segal, Max
 Segman, Walter W.
 Seibel, Mrs. Julia F.
 Seibert, William R.
 Seidel, Walter H.
 Seif, Joseph V.
 Selfridge, Calvin F.
 Sell, N. J.
 Selle, Miss Pearl C.
 Sellers, Dr. Donald W.
 Sellers, Paul A.
 Selz, Miss Denise
 Sensenbrenner, O. K.
 Serwat, Leonard H.
 Sevcik, John G.
 Severns, Roger L.
 Severance, George S.
 Stewart, Whitney M.
 Seymour, Fletcher
 Shafer, Frederick C.
 Shafer, Dr. Sid John
 Shannon, Peter M.
 Shantz, Marc A.
 Shapiro, Arthur M.
 Share, J. R.
 Shaw, Lee C.
 Shea, Richard E.
 Shearer, James, II
 Shedd, Mrs. Charles C.
 Shedd, Jeffrey
 Sheehan, Mrs. Robert R.
 Sheehan, Thomas J.
 Shepard, Kenneth E.
 Shepherd, Ronald J.
 Sherer, Mrs. Albert W.
 Sheridan, Donald T.
 Sheridan, Leo J.
 Sheridan, Raymond M.
 Sheridan, Robert P.
 Sherman, John H.
 Sherman, Robert T.
 Sherman, Mrs. Robert T.
 Shetler, Stanley L.
 Shields, G. A.
 Shilton, Earle A.
 Shine, Joseph J.
 Shimer, William B.
 Shipley, M. L.
 Shlaes, Harry L.
 Shlopach, Wallace B.
 Shoemaker, F. Wells
 Sholes, DeVer
 Short, Jeffrey R., Jr.
 Short, William H.
 Shrader, Frank K.
 Shuart, Karl P.
 Shufitowski, Joseph T.
 Shure, Arnold I.
 Shuster, Leroy C.
 Shutack, John T.
 Shriver, Robert
 Sargent, Jr.
 Shy, Ira O.
 Sieber, Paul E.
 Siegan, B. H.
 Sierocinski, E. John
 Sieron, Robert D.
 Silber, Newton E.
 Silver, Mrs. M.
 Silverstein, Mrs. Milton
 Silverthorne, Mrs.
 George
 Simanski, Mrs. Julia
 Simjack, Miss Marybeth
 Simmons, Dr.
 Nicholas M.
 Simmons, George H.
 Simmons, Dr. Nicholas L.
 Simon, Mrs. Arnold B.
 Simon, Charles H.
 Simon, George E.
 Simpson, Benjamin I.
 Simpson, Bruce L.
 Simpson, Mrs. Donald J.
 Simpson, E. A.
 Simpson, John B.
 Simpson, Justin
 Sims, David K.
 Singer, Carl N.
 Singer, Morris T.
 Singleton, Thomas B.
 Sippel, Edward A.
 Sisler, George F.
 Sitek, John A.
 Sittler, Dr. W. Walter
 Sivyver, Warner
 Skaff, Mrs. Ernest
 Skamfer, Robert
 Skan, Leon N.
 Skeie, Kermit A.
 Sklansky, Mrs. M. A.
 Sklar, N. Raoul
 Skoczek, Mrs. Roman A.
 Skoner, Ralph
 Skudera, Mrs. Marie
 Slater, Milton E.
 Slindee, Mrs. Edward A.
 Sloan, Dr. Jack H.
 Slottow, Richard S.
 Smalley, B. L.
 Smalley, Dr. Charles J.
 Smalley, John H.
 Smigiel, Chester W.
 Smith, C. D.
 Smith, Charles L.
 Smith, F. Gordon
 Smith, George P. F.
 Smith, Goff
 Smith, H. Kellogg
 Smith, H. William
 Smith, Harold A.

ANNUAL MEMBERS (CONTINUED)

- Smith, Harry C.
 Smith, Harry T.
 Smith, Howard A.
 Smith, John Justin
 Smith, Kenneth P.
 Smith, L. L.
 Smith, Dr. Manuel
 Smith, Norbert
 Smith, Owen
 Smith, Mrs. Raymond F.
 Smith, Robert C.
 Smith, Mrs. Solomon B.
 Smith, S. S.
 Smoker, Richard E.
 Smyth, David B.
 Snitoff, Howard J.
 Snyder, Bernard A.
 Snyder, Edward J., Jr.
 Snyder, James E.
 Sokolec, Maurice
 Solis, Edwin B.
 Sollitt, Sumner S.
 Solomon, Ezra
 Sommers, Bert Edward
 Sonderby, Max E.
 Sonne, Fred T.
 Sonoda, Miss Louise
 Soper, Taylor G.
 Sorensen, Howard C.
 Sorensen, L. W.
 Sorrelle, E. Courtney
 Souder, W. F., Jr.
 Southwick, Dr. Harry W.
 Sowa, Frank
 Spangler, James C.
 Spanik, Miss Anne
 Spanjer, Henry J., Jr.
 Sparberg, Sidney J.
 Spark, David I.
 Spaulding, George E.
 Spaulding, J. B.
 Spelman, Harold J.
 Spencer, Charles M.
 Spencer, Mrs. I.
 Spencer, William N.
 Sperry, Oliver R.
 Spertus, Philip
 Spiegel, Miss
 Katherine J.
 Spiehler, Adolph F.
 Spinka, Dr. Harold M.
 Spitz, Lawrence S.
 Spitz, Milton J.
 Spooner, Dr. Bruce A.
 Squire, D.
 Staat, Richard A.
 Stade, Hans A.
 Stafford, Charles M.
 Stafford, Mrs. Richard W.
 Stagman, Nathan
 Stagman, Dr. Joseph
 Stahl, John
 Stahl, T. R.
 Stair, H. Bowen
 Stanbery, J. N.
 Standen, Charles R.
 Stang, J. I.
 Stanley, E. V.
 Stanton, Mrs. Francis R.
 Stanton, John
 Star, Alvin D.
 Stark, Ralph W.
 Starshak, A. L.
 Starkweather, M. F.
 Starzyk, Dale
 Stauffacher, E. L.
 Stavenhagen, Fred A.
 Stavish, Emanuel G.
 Steans, Dr. George L.
 Stebbins, Mrs. A. L.
 Steele, Mrs. Chester B.
 Stefany, Henry
 Steffen, Charles
 Steffey, O. O.
 Steigmann, Dr.
 Frederick
 Stein, A. D.
 Stein, Mrs. Louise K.
 Stein, Melvyn E.
 Steiner, Miss Joanne
 Steinhorn, Mrs. S. R.
 Steinmann, Mrs. F. H.
 Steins, Mrs. Halsey
 Stekly, Harold
 Stenhouse, Miss
 Bessie C.
 Stenn, Dr. Frederick
 Stepelton, Norman A.
 Stephan, Edmund A.
 Stephens, Dr. Natalie
 Sterling, James R.
 Stern, Henry
 Stern, Jerome H.
 Stern, John W.
 Stern, Herbert L.
 Stern, Herbert L., Jr.
 Stern, Lawrence F.
 Stern, Russell T.
 Stern, Russell T., Jr.
 Sternberg, Arthur
 Sternberg, Edward
 Stetson, William C.
 Stevens, John Paul
 Stevens, William E.
 Stevenson, Ben T.
 Stevenson, Mrs. Borden
 Stewart, Brendan J.
 Stewart, George W.
 Stewart, Ray S.
 St. George, George Q. M.
 Stiggleman, James H.
 Stickers, Alex
 Stirling, Miss Dorothy
 Stix, Lawrence C., Jr.
 Stoaks, Richard O.
 Stocker, Frederick B., Jr.
 Stocking, George T.
 Stoesser, John N.
 Stofft, Edmond B.
 Stohl, Milton R.
 Stone, Herbert Stuart
 Stone, J. McWilliams
 Stone, Marvin N.
 Stone, W. Clement
 Stonehouse, Elmer H.
 Storey, Smith W.
 Storkan, Mrs. James
 Stormont, Dr. D. L.
 Stout, Frederick E.
 Stover, Frank C.
 Straight, Mrs. Madeline
 Joyce
 Strandjord, Dr. Nels M.
 Strathearn, Donald, Jr.
 Stratton, Robert C.
 Stratz, Albert E.
 Straus, Mrs. Robert E.
 Strauss, Eugene O.
 Stresen-Reuter, A. P.
 Strnad, James E., Jr.
 Stroben, Donald R.
 Strom, Norman N.
 Stryck, Paul W.
 Stuart, La Rhett L.
 Stuart, Lyman J.
 Stuart, William M.
 Stubenrauch, E. H.
 Stuckslager, Walter N.
 Study, Dr. Robert S.
 Study, Mrs. Robert
 Sturdy, Franklin D.
 Stueckemann, Mrs.
 Fred C.
 Sturm, Arthur
 Succa, Roy J.
 Sujack, Edwin T.
 Sule, Charles J.
 Sullivan, Eugene T.
 Sulzberger, Mrs.
 Frank L.
 Sundell, Miss Grace B.
 Sundt, E. V.
 Sutton, Dr. George C.
 Suyker, Hector
 Svee, Anton E.
 Svensson, Olof
 Swain, Mrs. Henry

ANNUAL MEMBERS (CONTINUED)

Swan, Jack
Swanson, H. G.
Swartz, Harry B.
Swartzberg, Irvin
Sweeney, David B.
Sweet, Mrs. Carroll
Sweet, David M.
Swenson, Gayle
Swenson, R. E.
Swett, William O.
Swift, Phelps Hoyt
Swift, T. Philip
Swihart, J. R.
Swinford, James C.
Swoiskin, Dr. Irving
Swope, George

Taaffe, C. R.
Taber, Edwin M.
Taber, John Anderson
Tabin, Mrs. Adrian
Tabin, Mrs. Albert
Tabin, Julius
Taft, Mrs. John Ailes
Talbot, Dr. Eugene S.
Talbot, Stuart
Talbot, John B.
Talmage, Mrs. Harry
Tannenbaum, Saul O.
Tarnopol, Emil
Tarrson, Albert J.
Tatge, Paul W.
Taub, Charles
Taylor, Fitzhugh
Taylor, Mrs. Hope
Taylor, John W.
Taylor, Mrs. John W., Jr.
Taylor, Mrs. Sam G., III
Taylor, William L., Jr.
Taymor, Aaron
Teach, Gordon L.
Tecson, Joseph A.
Tedrow, James W.
Teichen, E. H.
Teitel, Charles
Teitelbaum, Joseph D.
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Tellefsen, Ralph, Jr.
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Temple, John
Templeman, William I.
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Tennant, Don
Terker, Sam
Terrell, Richard L.
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Teter, Park
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Thompson, C. Harold
Thompson, Dr. Charles E.
Thompson, H. Hoyt
Thompson, Dr. John R.
Thompson, Russell W.
Thompson, Warren E.
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Thoresen, H. B.
Thrush, George H.
Thurber, Joseph G.
Thurston, John F.
Tibbs, Harry M.
Tice, Winfield
Tideman, S. N., Jr.
Tiersky, Dr. Morris D.
Tilden, Merrill W.
Timmings, G. H.
Tinen, John, Jr.
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Tippens, Mrs. Albert H.
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Tobey, Newton H.
Todd, Mrs. E. L.
Toelle, R. Maynard
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Toomin, Philip R.
Topolinski, J. J.
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Tourtellot, Gair, III
Towns, R. E.
Toyomura, Dennis
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Tracy, T. J.
Tracy, Wheeler
Trager, D. C.
Train, Jack D.
Trainor, Mrs. Minita
Traver, George W.
Travers, Claude R.
Traynor, William
Treadway, Cecil E.
Treadwell, George P.
Treasurer, Mrs. Henry J., Jr.
Trees, Charles J.
Tremper, Robert
Tresley, Dr. Ira J.
Trieger, Ralph
Trienens, Howard J.
Triggs, Warren
Triner, Joseph
Troeger, Louis P.
Troxel, Dr. J. C.
Troxell, R. L.
Tubergen, Harry F., Jr.
Tucker, Irwin R.

Turek, A. O.
Turgrimson, Charles D.
Turkevich, Nicholas L.
Turner, Dr. Herbert A.
Turner, Oliver S.
Turner, William S.
Tuthill, O. W.
Tuzin, C. F.
Tyk, Warren G.
Tyson, John

Ufferman, William
Uhlmann, Richard F.
Ultsch, W. Lewis
Underwood, Richard C.
Uaro, Gerard M.
Unger, Mrs. Dan
Urann, E. B.
Urbach, Mrs. H. H.
Urban, Andrew
Urban, John T.
Uretz, Daniel A.
Urick, Delbert N.
Uriell, Frank G.
Urnes, Dr. M. P.
Ushijima, Mrs. Ruth
Utz, Miss Martha

Vacante, Dr. Anthony B.
Vachout, Dr. D. M.
Vail, Mrs. Daniel M.
Vail, Donald P.
Vail, J. Dean, Jr.
Valentine, Mrs. Joseph L.
Van Buskirk, M. G.
Vance, Norman, Jr.
Vance, S. M.
Vanderkloot, Dr. Albert
Vander Kloot,
Nicholas J.
Vander Laan, Dr.
Cornelius A.
van der Meulen, John H.
Vander Ploeg, Frank
Vanderwicken, Mrs.
Edwin P.
Van Deventer,
William E.
Van Dyk, S. A.
Van Epps, Dr. James
Van Etten, Floyd G.
Van Gorkom, Mrs. J. W.
Van Hagen, Mrs.
George E., III
Van Hazel, Dr. Willard
Van Kampen, A. H.
Van Ness, A. L.
Van Ryzin, Mrs. Joel G.
Van Stanten, James
Varde, Chris M.
Varley, John S.

ANNUAL MEMBERS (CONTINUED)

- Vasalle, Master David
 Vaughan, A. W.
 Vaughn, Wilbert T.
 Veeder, Mrs. Melvin N.
 Veeger, Jack
 Velvel, Charles
 Velvel, H. R.
 Venrick, Mrs. Charles F.
 Vergeck, Bruno J.
 Verhaag, Dr. Joseph E.
 Ver Nooy, Miss Winifred
 Vernon, Leroy N.
 Verros, Harry Peter
 Vetter, Paul G.
 Veverka, Dr. Frank J.
 Vicari, Dr. Frank A.
 Vick, Maurice B.
 Victorine, Vernon E.
 Viger, James W.
 Vihon, Charles H.
 Vilas, Mrs. Royal C.
 Vilsoet, William
 Vincenti, Anthony P.
 Vivas, Julio
 Vlcek, Dr. Anton J.
 Vogt, Robert F.
 Voigt, Mrs. Wilbur R.
 Volid, Peter
 Vollmer, Karl F.
 Von Brauchitsch,
 Frederick C.
 Vondrasek, Earl A.
 Von Gehr, George
 Voorhis, Jerry
 Voris, Dr. Harold C.
 Vose, Hamilton, Jr.
 Voytech, Charles F.
 Vratny, Thomas J.
 Vyse, T. A. E.
- Wach, Dr. Edward C.
 Wachter, Frederick J.
 Wack, Mrs. Edwin O.
 Wack, Mrs. Otis
 Wade, Wendell W.
 Wadsworth, Robert
 Woodman
 Wagoner, William F.
 Waitkus, E. Algerd
 Walbert, Richard
 Waldie, Benjamin D.
 Waldman, Dr. Albert G.
 Waldner, Arthur L.
 Waldo, C. Ives, Jr.
 Walgren, Lawrence C.
 Walker, Dr. Alfred O.
 Walker, Frank R.
 Walker, Dr. Maggie L.
 Walker, Malcolm M.
 Walker, Reno R.
 Wallace, William B.
- Wallace, Zearl B.
 Wallenstein, Sidney
 Waller, Fletcher C.
 Wallerstedt, R. W.
 Wallerstein, David B.
 Wallgren, Eric M.
 Walling, Mrs.
 Willoughby G.
 Wallingford, Donald H.
 Wallis, Wayne
 Walter, Guy S.
 Walters, Gary G.
 Walther, Cole
 Waltman, C. E.
 Waltman, Charles T.
 Wanda, Dimitry
 Wands, Mrs. Thomas F.
 Wang, Dr. S. Y.
 Wanger, David E., Jr.
 Wanzer, H. Stanley
 Warady, Dr. Seymore C.
 Ward, Mrs. Herbert S.
 Warde, Frederick A.
 Wardwell, Allen
 Wardwell, Henry
 Ware, James R.
 Ware, Willis C.
 Warman, Winfield C.
 Warner, Kenneth O.
 Warner, Mason
 Warner, Peter B.
 Warren, Ben O.
 Warren, Richard C.
 Warshawsky, Roy I.
 Warshell, Henry L.
 Washburn, Dr.
 Kenneth C.
 Wasson, Theron
 Waterfield, John R.
 Waterman, Mrs. Alex H.
 Watling, John
 Watrons, David C.
 Watson, D. R.
 Watson, George
 Watson, Norman E.
 Watson, Mrs. Thomas S.,
 Jr.
 Watson, William D.
 Watts, Amos H.
 Watts, G. W.
 Watts, James A.
 Watts, Dr. Walter F.
 Weary, Rollin D., Jr.
 Weatherby, George W.
 Weathers, Everett A.
 Webb, Dr. A. C.
 Webb, Dr. J. Lewis
 Webber, Mrs. Gayle M.
 Webber, Mrs. Harriet P.
 Weber, James E.
 Weber, Miss Laura M.
- Weber, Paul W.
 Webster, Dr. Augusta
 Webster, N. C.
 Webster, Wesley G.
 Weeks, Andrew G.
 Weeks, Harrison S.
 Weick, George T.
 Weidert, William C.
 Weil, Mrs. Carl H.
 Weil, David Maxwell
 Weiner, Aaron B.
 Weiner, Charles
 Weiner, Irwin S.
 Weinstein, Harold
 Weinstein, M. A.
 Weintroub, Benjamin
 Weisbrod, Mrs.
 H. Johnstone
 Weisman, Mrs. Nat
 Weiss, Dr. Arthur M.
 Weiss, Dr. Marvin A.
 Weiss, Louis J.
 Weisz, William J.
 Welch, Raymond W., Jr.
 Wellman, Lester R., Jr.
 Wells, Sidney
 Welsh, Vernon M.
 Welton, Arthur D.
 Wendel, Mrs. George E.
 Wendt, Mrs. M. R.
 Wenner, Mrs. David, Jr.
 Wenninger, William C.
 Werner, Mrs. A. J.
 Werner, Dr. Howard L.
 Werrenrath, Reinald, Jr.
 Wesby, Charles F.
 Wessling, Richard
 West, Arthur
 West, James D.
 West, Lawrence J.
 West, Richard H.
 Westbrook, Charles H.
 Westbrook, Frank
 Westerfield, Harry G.
 Westerhold, Mrs.
 Lenora C.
 Westfall, Dr. Robert E.
 Wetherell, Warren
 Whall, Arthur L.
 Wharton, Mrs.
 Joseph P., Jr.
 Wheary, Warren
 Wheaton, David
 Wheeler, Henry P.
 Wheeler, John B.
 Wheeler, W. L.
 White, Gordon
 White, Dr. Gregory J.
 White, John G.
 White, Miss Naomi
 White, Dr. Michael S.

ANNUAL MEMBERS (CONTINUED)

| | | |
|----------------------------|----------------------------|--------------------------|
| White, Dr. Philip C. | Winters, Ernest J. | Wujcik, Robert |
| White, Philip M. | Wise, Dr. Sidney S. | Wydra, Henry |
| White, Dr. Ralph P. | Wishingrad, Dr. Lester | Wyman, Austin L., Jr. |
| White, Richard H. | Wisner, David E. | Wyne, Walter |
| White, Robert P. | Wiss, Dr. Edward J. | Wynne, Mrs. Lloyd |
| Whitelock, John B. | Withall, H. H. | |
| Whiteman, Weston K. | Withall, Mrs. William E. | Xelowski, Dr. Thad |
| Whiteway, Mrs. R. E. | Witt, Robert J. | |
| Whiting, Lawrence H. | Witte, Lester | Yacullo, Dr. William A. |
| Whitsell, Dr. F. M. | Witty, Dr. Drake R. A. | Yager, Richard Sidney |
| Whitte, Virgel E. | Wlocholl, Arthur | Yavitz, Sidney M. |
| Wickersham, Mrs. Lucille | Wojnarowsky, Dr. | Yellin, Morris |
| Wicks, Dr. Mark | Emilia | Yeoman, George W. |
| Wiersum, Jack | Wolcoff, Phillip | Yeretsky, Norman M. |
| Wieser, Walter J. | Wolf, Albert M. | Yesnick, Dr. Louis |
| Wilby, A. C. | Wolf, Andrew | Ylvsaker, L. |
| Wiles, Bradford | Wolf, C. W. | Yntema, Dr. Leonard F. |
| Wilhelm, Eugene A. | Wolf, Morris E. | Yohe, C. Lloyd |
| Wilkes, Mrs. R. M. | Wolf, Albert M. | Young, C. S. |
| Will, Philip, Jr. | Wolfe, Edward | Young, George B. |
| Willard, Nelson W. | Wolfe, Hubert J. | Young, Rollin R. |
| Willey, Lawrence V., Jr. | Wolff, Arnold R. | Young, William T., Jr. |
| Williams, Albert D. | Wolfson, Max J. | Youngquist, C. Harry |
| Williams, Bennett | Wolfson, Rudolph A. | Youngren, W. W. |
| Williams, Miss Diane | Wood, A. E. | Ytterberg, Victor E. |
| Williams, Donald B. | Wood, Alexander M. | |
| Williams, Mrs. | Wood, Arthur M. | Zabor, Dr. Robert C. |
| Ednyfed H. | Wood, C. A. | Zaczek, Miss |
| Williams, Emory | Wood, Harold F. | Genevieve A. |
| Williams, Lynn A. | Wood, Kenward T. | Zagrodny, Edward |
| Williams, Dr. O. B. | Wood, Mrs. Phylis | Zahn, Louis |
| Williams, Dr. Philip C. | Wood, Reverend | Zarish, Mrs. Joseph F. |
| Williams, Ralph E. | Walter S. | Zartman, James N. |
| Williams, R. Arthur | Wood, William A. | Zehr, Ores E. |
| Williams, Robert J. | Wood, Mrs. William J. | Zeiss, Dr. Chester R. |
| Williamson, Harold A. | Woodall, Lloyd | Zeitlin, Dr. N. S. |
| Willing, Mrs. Mark S., Jr. | Woodman, Dudley J. | Zeitlin, Samuel E. |
| Willis, George H. | Woodruff, Donald E. | Zekman, Dr. Theodore N. |
| Willis, Ivan L. | Woods, Dr. A. W. | Zelinsky, S. F. |
| Willy, Dr. Ralph G. | Woods, Robert A. | Zelinsky, Mrs. S. F. |
| Wilsey, Dr. H. Lawrence | Woodside, William S. | Zeller, Charles B. |
| Wilson, Christopher W. | Woodson, William T. | Zerega, Joseph J. |
| Wilson, | Woodward, Miss | Ziegler, Dr. George E. |
| Christopher W., Jr. | Mary H. | Zielinski, Dr. Victor J. |
| Wilson, Dr. Earle E. | Woody, Warren V. | Zigler, John D. |
| Wilson, E. W. | Woolley, Murray B. | Zimmerman, Austin M. |
| Wilson, H. B. | Woolpy, Max | Zimmerman, Charles W. |
| Wilson, Harold E. | Workman, S. L. | Zimmerman, Herbert |
| Wilson, Mrs. John H. | Works, Nelson C., Jr. | Zimmerman, Irving |
| Wilson, Joseph J. | Works, Mrs. Nelson C., Jr. | Zimmerman, Dr. Nathan |
| Wilson, Robert M. | Worthy, James C. | Zimmerman, Otto H. |
| Wilson, Mrs. Roger V. | Wray, Franklin C. | Zimmermann, Frank O. |
| Windes, Guilford R. | Wray, Glenn | Zimmermann, Mrs. P. T. |
| Winkenweder, V. O. | Wreath, Robert L. | Zisook, Edmond N. |
| Winkler, Edward | Wright, John A. | Zitzewitz, Arthur F. |
| Winograd, Dr. Alvin M. | Wright, C. G. | Zoll, William F. |
| Winston, Farwell | Wright, Dr. F. Howell | Zurek, Anthony A. |
| Winter, Mrs. Gibson | Wright, Miss | Zurek, Francis J. |
| Winter, Ted | Margaret J. | Zusser, Maurice M. |
| Winterbotham, John R. | Wrightson, William F. | Zylstra, Clifford H. |

ANNUAL MEMBERS (CONTINUED)

DECEASED 1961

Aitchison, Robert J.
Amberg, Harold V.

Jones, Mrs.
Walter Clyde, Sr.

Oberfelder, Joseph H.
Oberman,
Dr. Abraham M.

Burnham, Mrs. Daniel H.
Butler, Horace G.

Koch, Carl

Perlman, Alfred H.
Price, Griswold A.

Flack, Dr. Hugh A.

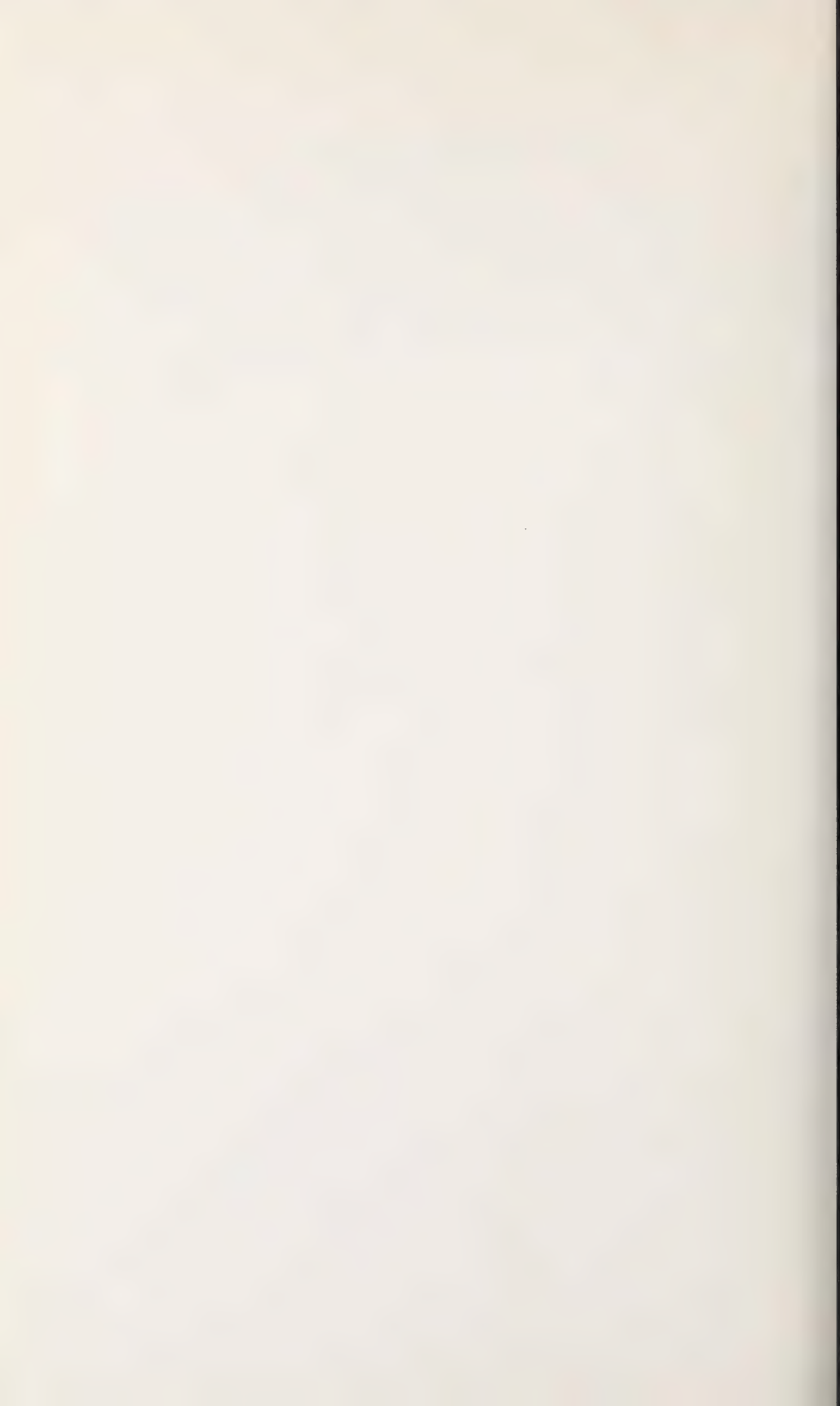
McClurg, Verne O.
McDonough, John J.
Montgomery, S. A.

Samuels, Benjamin
Smith, Bernard Peacock
Stebler, Mrs. W. J.

Harman, Dr. Hubert F.
Harrison, Rodney D.

Noyes, Mrs. Ernest

ARTICLES OF INCORPORATION
AMENDED BY LAWS



Articles of Incorporation

STATE OF ILLINOIS

DEPARTMENT OF STATE

WILLIAM H. HINRICHSEN, *Secretary of State*

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETING:

Whereas, a Certificate duly signed and acknowledged having been filed in the office of the Secretary of State, on the 16th day of September, A.D. 1893, for the organization of the COLUMBIAN MUSEUM OF CHICAGO, under and in accordance with the provisions of "An Act Concerning Corporations," approved April 18, 1872, and in force July 1, 1872, and all acts amendatory thereof, a copy of which certificate is hereto attached.

Now, therefore, I, William H. Hinrichsen, Secretary of State of the State of Illinois, by virtue of the powers and duties vested in me by law, do hereby certify that the said COLUMBIAN MUSEUM OF CHICAGO is a legally organized Corporation under the laws of this State.

In Testimony Whereof, I hereto set my hand and cause to be affixed the Great Seal of State. Done at the City of Springfield, this 16th day of September, in the year of our Lord one thousand eight hundred and ninety-three, and of the Independence of the United States the one hundred and eighteenth.

W. H. HINRICHSEN,
Secretary of State.

[SEAL]

TO HON. WILLIAM H. HINRICHSEN,

SECRETARY OF STATE:

SIR:

We, the undersigned citizens of the United States, propose to form a corporation under an act of the General Assembly of the State of Illinois, entitled "An Act Concerning Corporations," approved April 18, 1872, and all acts amendatory thereof; and that for the purposes of such organization we hereby state as follows, to-wit:

1. The name of such corporation is the "COLUMBIAN MUSEUM OF CHICAGO."

2. The object for which it is formed is for the accumulation and dissemination of knowledge, and the preservation and exhibition of objects illustrating Art, Archaeology, Science and History.

3. The management of the aforesaid museum shall be vested in a Board of FIFTEEN (15) TRUSTEES, five of whom are to be elected every year.

4. The following named persons are hereby selected as the Trustees for the first year of its corporate existence:

Edward E. Ayer, Charles B. Farwell, George E. Adams, George R. Davis, Charles L. Hutchinson, Daniel H. Burnham, John A. Roche, M. C. Bullock, Emil G. Hirsch, James W. Ellsworth, Allison V. Armour, O. F. Aldis, Edwin Walker, John C. Black and Frank W. Gunsaulus.

5. The location of the Museum is in the City of Chicago, County of Cook, and State of Illinois.

(Signed)

George E. Adams, C. B. Farwell, Sidney C. Eastman, F. W. Putnam, Robert McCurdy, Andrew Peterson, L. J. Gage, Charles L. Hutchinson, Ebenezer

Buckingham, Andrew McNally, Edward E. Ayer, John M. Clark, Herman H. Kohlsaat, George Schneider, Henry H. Getty, William R. Harper, Franklin H. Head, E. G. Keith, J. Irving Pearce, Azel F. Hatch, Henry Wade Rogers, Thomas B. Bryan, L. Z. Leiter, A. C. Bartlett, A. A. Sprague, A. C. McClurg, James W. Scott, Geo. F. Bissell, John R. Walsh, Chas. Fitzsimmons, John A. Roche, E. B. McCagg, Owen F. Aldis, Ferdinand W. Peck, James H. Dole, Joseph Stockton, Edward B. Butler, John McConnell, R. A. Waller, H. C. Chatfield-Taylor, A. Crawford, Wm. Sooy Smith, P. S. Peterson, John C. Black, Jno. J. Mitchell, C. F. Gunther, George R. Davis, Stephen A. Forbes, Robert W. Patterson, Jr., M. C. Bullock, Edwin Walker, George M. Pullman, William E. Curtis, James W. Ellsworth, William E. Hale, Wm. T. Baker, Martin A. Ryerson, Huntington W. Jackson, N. B. Ream, Norman Williams, Melville E. Stone, Bryan Lathrop, Eliphalet W. Blatchford, Philip D. Armour.

STATE OF ILLINOIS }
COOK COUNTY } ss.

I, G. R. MITCHELL, a NOTARY PUBLIC in and for said County, do hereby certify that the foregoing petitioners personally appeared before me and acknowledged severally that they signed the foregoing petition as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this 14th day of September, 1893.

G. R. MITCHELL,

[SEAL]

NOTARY PUBLIC, COOK COUNTY, ILL.

CHANGE IN ARTICLE 1

Pursuant to a resolution passed at a meeting of the corporate members held the 25th day of June, 1894, the name of the COLUMBIAN MUSEUM was changed to FIELD COLUMBIAN MUSEUM. A certificate to this effect was filed June 26, 1894, in the office of the Secretary of State for Illinois.

CHANGE IN ARTICLE 1

Pursuant to a resolution passed at a meeting of the corporate members held the 8th day of November, 1905, the name of the FIELD COLUMBIAN MUSEUM was changed to FIELD MUSEUM OF NATURAL HISTORY. A certificate to this effect was filed November 10, 1905, in the office of the Secretary of State for Illinois.

CHANGE IN ARTICLE 3

Pursuant to a resolution passed at a meeting of the corporate members held the 10th day of May, 1920, the management of FIELD MUSEUM OF NATURAL HISTORY shall be invested in a Board of TWENTY-ONE (21) TRUSTEES, who shall be elected in such manner and for such time and term of office as may be provided for by the By-Laws. A certificate to this effect was filed May 21, 1920, in the office of the Secretary of State for Illinois.

CHANGE IN ARTICLE 1

Pursuant to a resolution passed at a meeting of the corporate members held the 15th day of November, 1943, the name of FIELD MUSEUM OF NATURAL HISTORY was changed to CHICAGO NATURAL HISTORY MUSEUM. A certificate to this effect was filed November 23, 1943, in the office of the Secretary of State for Illinois.

Amended By-Laws

JANUARY 1962

ARTICLE I

MEMBERS

SECTION 1. Members shall be of twelve classes, Corporate Members, Honorary Members, Patrons, Corresponding Members, Benefactors, Contributors, Life Members, Non-Resident Life Members, Associate Members, Non-Resident Associate Members, Sustaining Members, and Annual Members.

SECTION 2. The Corporate Members shall consist of the persons named in the articles of incorporation, and of such other persons as shall be chosen from time to time by the Board of Trustees at any of its meetings, upon the recommendation of the Executive Committee; provided, that such person named in the articles of incorporation shall, within ninety days from the adoption of these By-Laws, and persons hereafter chosen as Corporate Members shall, within ninety days of their election, pay into the treasury the sum of Twenty Dollars (\$20.00) or more. Corporate Members becoming Life Members, Patrons or Honorary Members shall be exempt from dues. Annual meetings of said Corporate Members shall be held at the same place and on the same day that the annual meeting of the Board of Trustees is held.

SECTION 3. Honorary Members shall be chosen by the Board from among persons who have rendered eminent service to science, and only upon unanimous nomination of the Executive Committee. They shall be exempt from all dues.

SECTION 4. Patrons shall be chosen by the Board upon recommendation of the Executive Committee from among persons who have rendered eminent service to the Museum. They shall be exempt from all dues, and, by virtue of their election as Patrons, shall also be Corporate Members.

SECTION 5. Any person contributing or devising the sum of One Hundred Thousand Dollars (\$100,000.00) in cash, or securities, or property to the funds of the Museum, may be elected a Benefactor of the Museum.

SECTION 6. Corresponding Members shall be chosen by the Board from among scientists or patrons of science residing in foreign countries, who render important service to the Museum. They shall be elected by the Board of Trustees at any of its meetings. They shall be exempt from all dues and shall enjoy all courtesies of the Museum.

SECTION 7. Any person contributing to the Museum One Thousand Dollars (\$1,000.00) or more in cash, securities, or material, may be elected a Contributor of the Museum. Contributors shall be exempt from all dues and shall enjoy all courtesies of the Museum.

SECTION 8. Any person paying into the treasury the sum of Five Hundred Dollars (\$500.00) at any one time, shall, upon the unanimous vote of the Board, become a Life Member. Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to members of the Board of Trustees. Any person residing fifty miles or more from the city of Chicago, paying into the treasury the sum of One Hundred Dollars (\$100.00) at any one time, shall, upon the unanimous vote of the Board, become a Non-Resident Life Member. Non-Resident Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to members of the Board of Trustees.

SECTION 9. Any person paying into the treasury of the Museum the sum of One Hundred Dollars (\$100.00) at any one time, shall, upon the vote of the Board,

become an Associate Member. Associate Members shall be exempt from all dues, and shall be entitled to tickets admitting Member and members of family, including non-resident home guests; all publications of the Museum issued during the period of their membership, if so desired; reserved seats for all lectures and entertainments under the auspices of the Museum, provided reservation is requested in advance; and admission of holder of membership and accompanying party to all special exhibits and Museum functions day or evening. Any person residing fifty miles or more from the city of Chicago, paying into the treasury the sum of Fifty Dollars (\$50.00) at any one time, shall, upon the unanimous vote of the Board, become a Non-Resident Associate Member. Non-Resident Associate Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to Associate Members.

SECTION 10. Sustaining Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of Twenty-five Dollars (\$25.00), payable within thirty days after notice of election and within thirty days after each recurring annual date. This Sustaining Membership entitles the Member to free admission for the Member and family to the Museum on any day, the Annual Report and such other Museum documents or publications issued during the period of their membership as may be requested in writing. When a Sustaining Member has paid the annual fee of \$25.00 for six years, such Member shall be entitled to become an Associate Member.

SECTION 11. Annual Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of Ten Dollars (\$10.00), payable within thirty days after each recurring annual date. An Annual Membership shall entitle the Member to a card of admission for the Member and family during all hours when the Museum is open to the public, and free admission for the Member and family to all Museum lectures and entertainments. This membership will also entitle the holder to the courtesies of the membership privileges of every museum of note in the United States and Canada, so long as the existing system of co-operative interchange of membership tickets shall be maintained, including tickets for any lectures given under the auspices of any of the museums during a visit to the cities in which the co-operative museums are located.

SECTION 12. All membership fees, excepting Sustaining and Annual, shall hereafter be applied to a permanent Membership Endowment Fund, the interest only of which shall be applied for the use of the Museum as the Board of Trustees may order.

ARTICLE II

BOARD OF TRUSTEES

SECTION 1. The Board of Trustees shall consist of twenty-one members. The respective members of the Board now in office, and those who shall hereafter be elected, shall hold office during life. Vacancies occurring in the Board shall be filled at a regular meeting of the Board, upon the nomination of the Executive Committee made at a preceding regular meeting of the Board, by a majority vote of the members of the Board present.

SECTION 2. Regular meetings of the Board shall be held on the third Monday of the month. Special meetings may be called at any time by the Chairman of the Board or the President, and shall be called by the Secretary upon the written request of three Trustees. Five Trustees shall constitute a quorum, except for the election of officers or the adoption of the Annual Budget, when seven Trustees shall be required, but meetings may be adjourned by any less number from day to day, or to a day fixed, previous to the next regular meeting.

SECTION 3. Reasonable written notice, designating the time and place of holding meetings, shall be given by the Secretary.

ARTICLE III

HONORARY TRUSTEES

SECTION 1. As a mark of respect, and in appreciation of services performed for the Institution, any Trustee who by reason of inability, on account of change

of residence, or for other cause or from indisposition to serve longer in such capacity shall resign his place upon the Board, may be elected, by a majority of those present at any regular meeting of the Board, an Honorary Trustee for life. Such Honorary Trustee will receive notice of all meetings of the Board of Trustees, whether regular or special, and will be expected to be present at all such meetings and participate in the deliberations thereof, but an Honorary Trustee shall not have the right to vote.

ARTICLE IV

OFFICERS

SECTION 1. The officers shall be the Chairman of the Board, the President, a First Vice-President, a Second Vice-President, a Third Vice-President, a Secretary, an Assistant Secretary, and a Treasurer. They shall be chosen by ballot by the Board of Trustees, a majority of those present and voting being necessary to elect. The Chairman of the Board, the President, and the Vice-Presidents shall be chosen from among the members of the Board of Trustees. The meeting for the election of officers shall be held on the third Monday of January of each year, and shall be called the Annual Meeting.

SECTION 2. The officers shall hold office for one year, or until their successors are elected and qualified, but any officer may be removed at any regular meeting of the Board of Trustees by a vote of two-thirds of all the members of the Board. Vacancies in any office may be filled by the Board at any meeting.

SECTION 3. The officers shall perform such duties as ordinarily appertain to their respective offices, and such as shall be prescribed by the By-Laws, or designated from time to time by the Board of Trustees.

ARTICLE V

THE TREASURER

SECTION 1. The Treasurer shall be custodian of the funds of the Corporation, except as hereinafter provided. He shall make disbursements only upon warrants, signed by such officer, or officers, or other persons as the Board of Trustees may from time to time designate.

SECTION 2. The securities and muniments of title belonging to the Corporation shall be placed in the custody of some Trust Company of Chicago to be designated by the Board of Trustees, which Trust Company shall collect the income and principal of said securities as the same become due, and pay same to the Treasurer, except as hereinafter provided. Said Trust Company shall allow access to and deliver any or all securities or muniments of title to the joint order of the following officers, namely: the Chairman of the Board, the President or one of the Vice-Presidents, jointly with the Chairman, or one of the Vice-Chairmen, of the Finance Committee of the Museum. The Chairman of the Board, the President or any one of the Vice-Presidents, jointly with either the Chairman or any one of the other members of the Finance Committee, are authorized and empowered (a) to sell, assign and transfer as a whole or in part the securities owned by or registered in the name of the Chicago Natural History Museum, and, for that purpose, to endorse certificates in blank or to a named person, appoint one or more attorneys, and execute such other instruments as may be necessary, and (b) to cause any securities belonging to this Corporation now, or acquired in the future, to be held or registered in the name or names of a nominee or nominees designated by them.

SECTION 3. The Treasurer shall give bond in such amount, and with such sureties as shall be approved by the Board of Trustees.

SECTION 4. The Harris Trust and Savings Bank shall be custodian of "The N. W. Harris Public School Extension of the Chicago Natural History Museum" fund. The bank shall make disbursements only upon warrants signed by such officer or officers or other persons as the Board of Trustees of the Museum may from time to time designate.

ARTICLE VI

THE DIRECTOR

SECTION 1. The Board of Trustees shall elect a Director of the Museum, who shall remain in office until his successor shall be elected. He shall have immediate charge and supervision of the Museum, and shall control the operations of the Institution, subject to the authority of the Board of Trustees and its Committees. The Director shall be the official medium of communication between the Board, or its Committees, and the scientific staff and maintenance force.

SECTION 2. There shall be four scientific Departments of the Museum—Anthropology, Botany, Geology, and Zoology—each under the charge of a Chief Curator, subject to the authority of the Director. The Chief Curators shall be appointed by the Board upon the recommendation of the Director, and shall serve during the pleasure of the Board. Subordinate staff officers in the scientific Departments shall be appointed and removed by the Director upon the recommendation of the Chief Curators of the respective Departments. The Director shall have authority to employ and remove all other employees of the Museum.

SECTION 3. The Director shall make report to the Board at each regular meeting, recounting the operations of the Museum for the previous month. At the Annual Meeting, the Director shall make an Annual Report, reviewing the work for the previous year, which Annual Report shall be published in pamphlet form for the information of the Trustees and Members, and for free distribution in such number as the Board may direct.

ARTICLE VII

THE AUDITOR

SECTION 1. The Board shall appoint an Auditor, who shall hold his office during the pleasure of the Board. He shall keep proper books of account, setting forth the financial condition and transactions of the Corporation, and of the Museum, and report thereon at each regular meeting, and at such other times as may be required by the Board. He shall certify to the correctness of all bills rendered for the expenditure of the money of the Corporation.

ARTICLE VIII

COMMITTEES

SECTION 1. There shall be five Committees, as follows: Finance, Building, Auditing, Pension, and Executive.

SECTION 2. The Finance Committee shall consist of not less than five or more than seven members, the Auditing and Pension Committees shall each consist of three members, and the Building Committee shall consist of five members. All members of these four Committees shall be elected by ballot by the Board at the Annual Meeting, and shall hold office for one year, and until their successors are elected and qualified. In electing the members of these Committees, the Board shall designate the Chairman and Vice-Chairman by the order in which the members are named in the respective Committee; the first member named shall be Chairman, the second named the Vice-Chairman, and the third named, Second Vice-Chairman, succession to the Chairmanship being in this order in the event of the absence or disability of the Chairman.

SECTION 3. The Executive Committee shall consist of the Chairman of the Board, the President, the Chairman of the Finance Committee, the Chairman of the Building Committee, the Chairman of the Auditing Committee, the Chairman of the Pension Committee, and three other members of the Board to be elected by ballot at the Annual Meeting.

SECTION 4. Four members shall constitute a quorum of the Executive Committee, and in all standing Committees two members shall constitute a quorum. In the event that, owing to the absence or inability of members, a quorum of the regularly elected members cannot be present at any meeting of any Committee, then the Chairman thereof, or his successor, as herein provided, may summon any members of the Board of Trustees to act in place of the absentee.

SECTION 5. The Finance Committee shall have supervision of investing the endowment and other funds of the Corporation, and the care of such real estate as may become its property. It shall have authority to make and alter investments from time to time, reporting its actions to the Board of Trustees. The Finance Committee is fully authorized to cause any funds or investments of the Corporation to be made payable to bearer, and it is further authorized to cause real estate of the Corporation, its funds and investments, to be held or registered in the name of a nominee selected by it.

SECTION 6. The Building Committee shall have supervision of the construction, reconstruction, and extension of any and all buildings used for Museum purposes.

SECTION 7. The Executive Committee shall be called together from time to time as the Chairman may consider necessary, or as he may be requested to do by three members of the Committee, to act upon such matters affecting the administration of the Museum as cannot await consideration at the Regular Monthly Meetings of the Board of Trustees. It shall, before the beginning of each fiscal year, prepare and submit to the Board an itemized Budget, setting forth the probable receipts from all sources for the ensuing year, and make recommendations as to the expenditures which should be made for routine maintenance and fixed charges. Upon the adoption of the Budget by the Board, the expenditures stated are authorized.

SECTION 8. The Auditing Committee shall have supervision over all accounting and bookkeeping, and full control of the financial records. It shall cause the same, once each year, or oftener, to be examined by an expert individual or firm, and shall transmit the report of such expert individual or firm to the Board at the next ensuing regular meeting after such examination shall have taken place.

SECTION 9. The Pension Committee shall determine by such means and processes as shall be established by the Board of Trustees to whom and in what amount the Pension Fund shall be distributed. These determinations or findings shall be subject to the approval of the Board of Trustees.

SECTION 10. The Chairman of each Committee shall report the acts and proceedings thereof at the next ensuing regular meeting of the Board.

SECTION 11. The Chairman of the Board and the President shall be ex-officio members of all Committees, and the Chairman of the Board shall be Chairman of the Executive Committee. Vacancies occurring in any Committee may be filled by ballot at any regular meeting of the Board.

ARTICLE IX

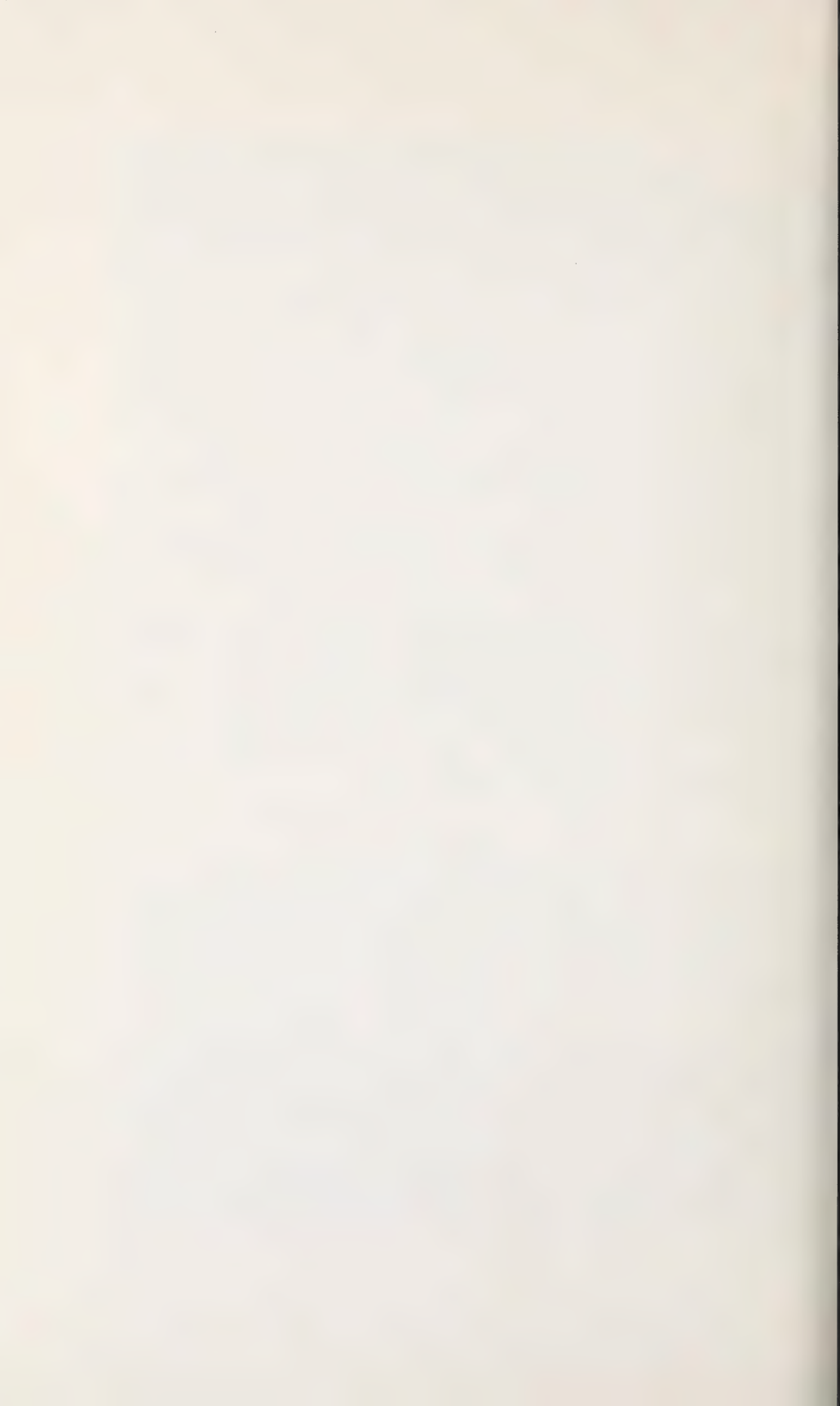
NOMINATING COMMITTEE

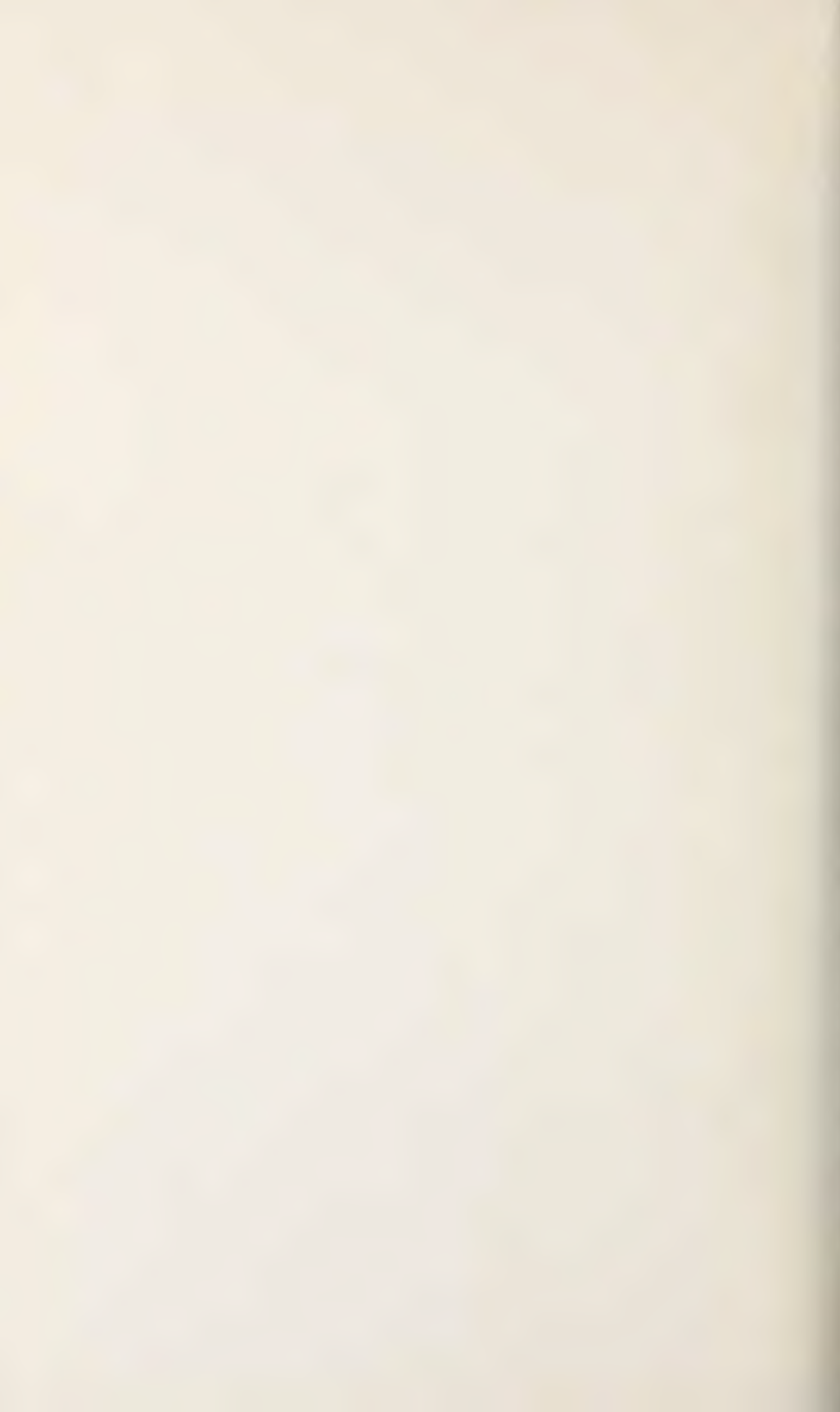
SECTION 1. At the November meeting of the Board each year, a Nominating Committee of three shall be chosen by lot. Said Committee shall make nominations for membership of the Finance Committee, the Building Committee, the Auditing Committee, and the Pension Committee, and for three members of the Executive Committee, from among the Trustees, to be submitted at the ensuing December meeting and voted upon at the following Annual Meeting in January.

ARTICLE X

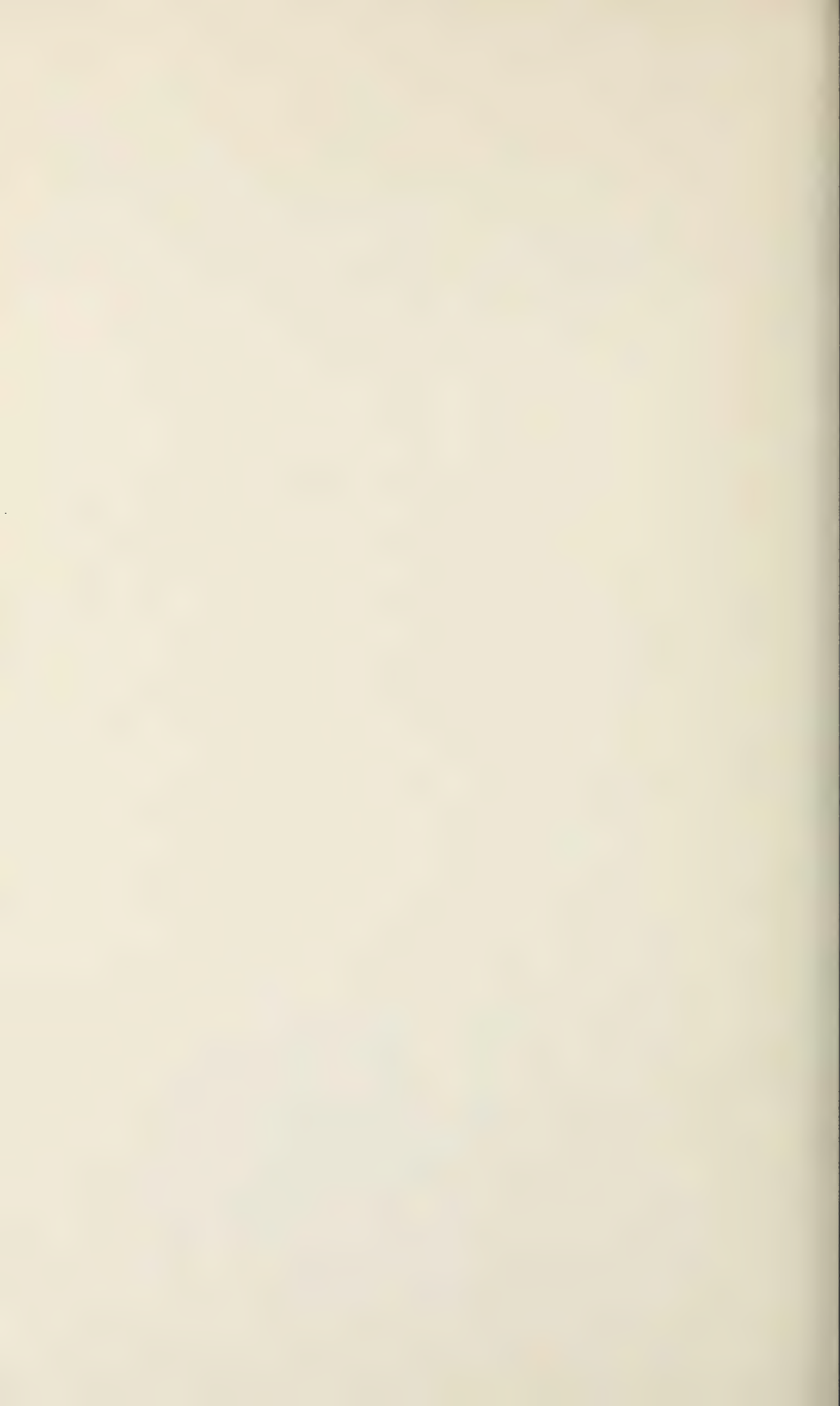
SECTION 1. Whenever the word "Museum" is employed in the By-Laws of the Corporation, it shall be taken to mean the building in which the Museum as an Institution is located and operated, the material exhibited, the material in study collections, or in storage, furniture, fixtures, cases, tools, records, books, and all appurtenances of the Institution and the workings, researches, installations, expenditures, field work, laboratories, library, publications, lecture courses, and all scientific and maintenance activities.

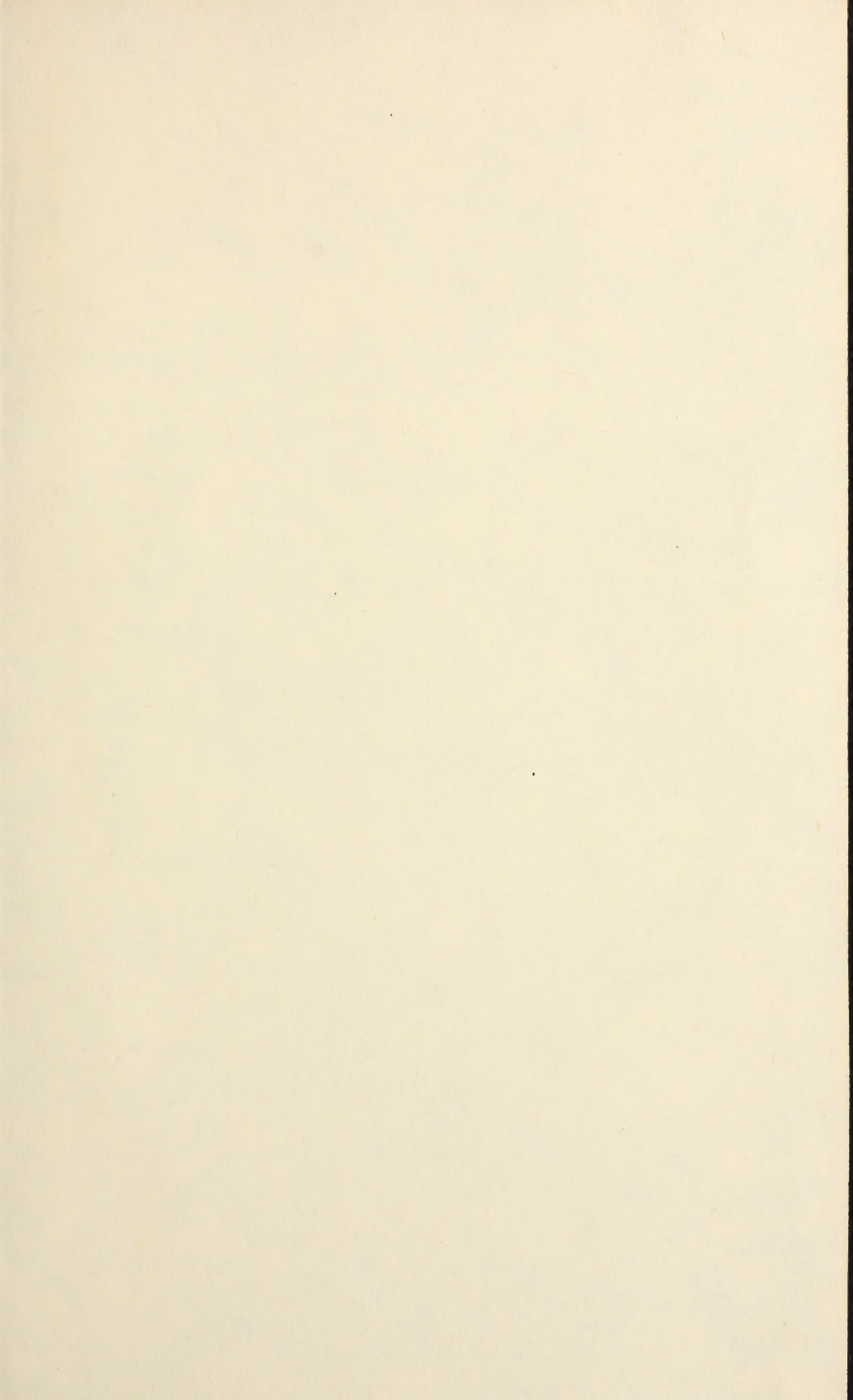
SECTION 2. The By-Laws, and likewise the Articles of Incorporation, may be amended at any regular meeting of the Board of Trustees by a vote in favor thereof of not less than two-thirds of all the members present, provided the amendment shall have been proposed at a preceding regular meeting.





CHICAGO
NATURAL
HISTORY
MUSEUM









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